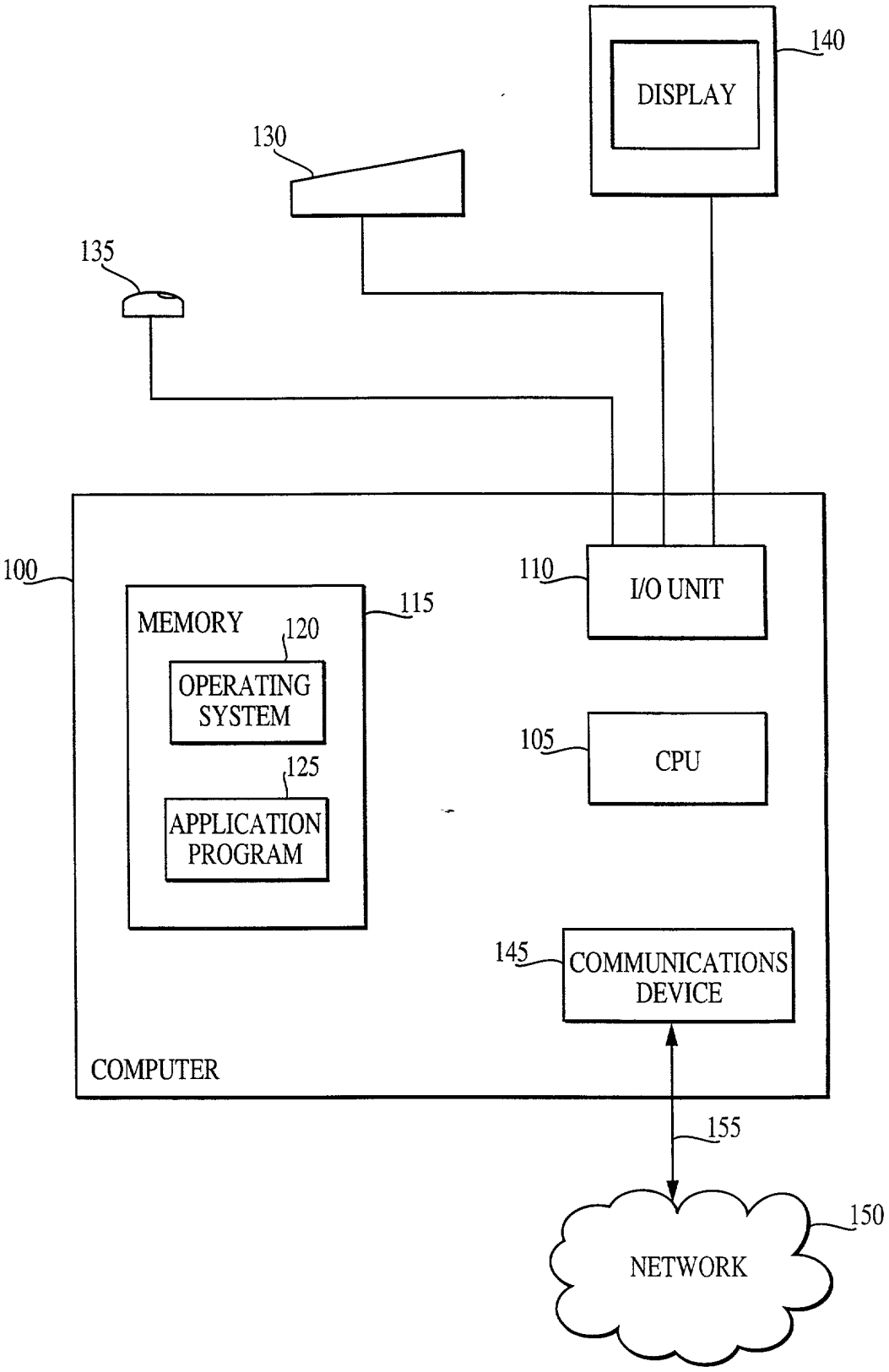

DISPLAY
140
130
135
100
110
I/O UNIT
MEMORY
115
120
OPERATING SYSTEM
125
APPLICATION PROGRAM
105
CPU
145
COMMUNICATIONS DEVICE
COMPUTER
155
150
NETWORK

FIG. 1

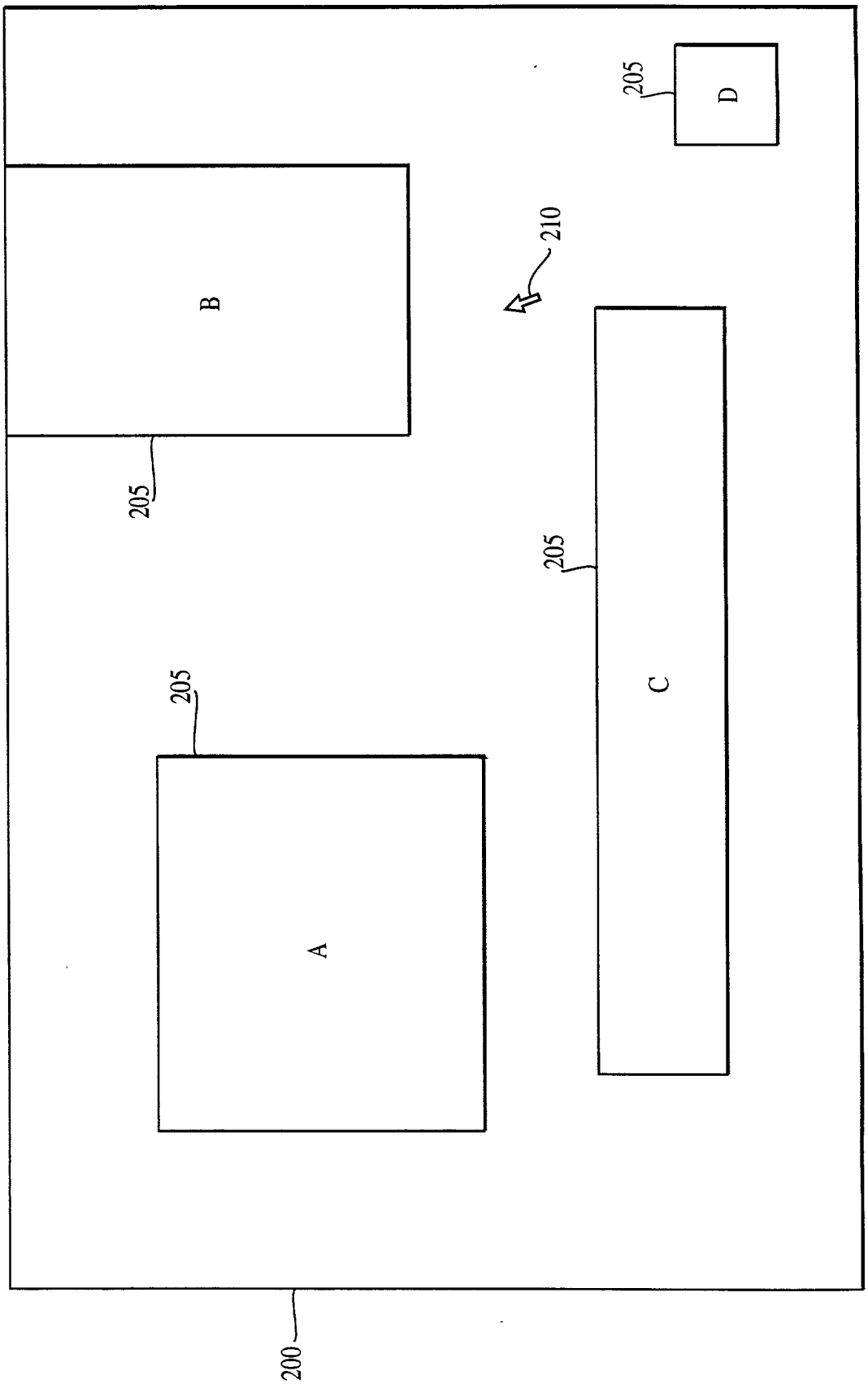


FIG. 2
PRIOR ART

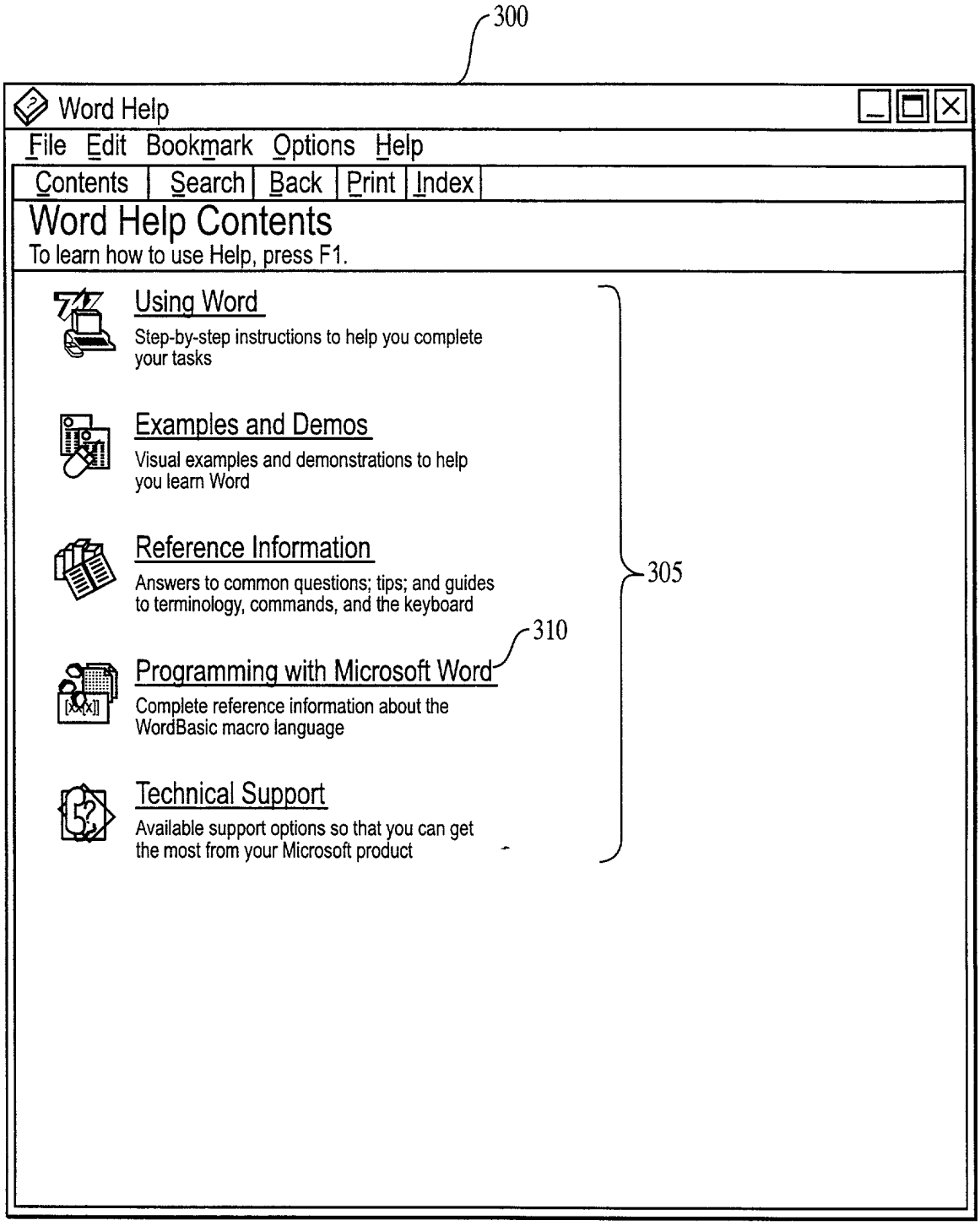


FIG. 3A
PRIOR ART

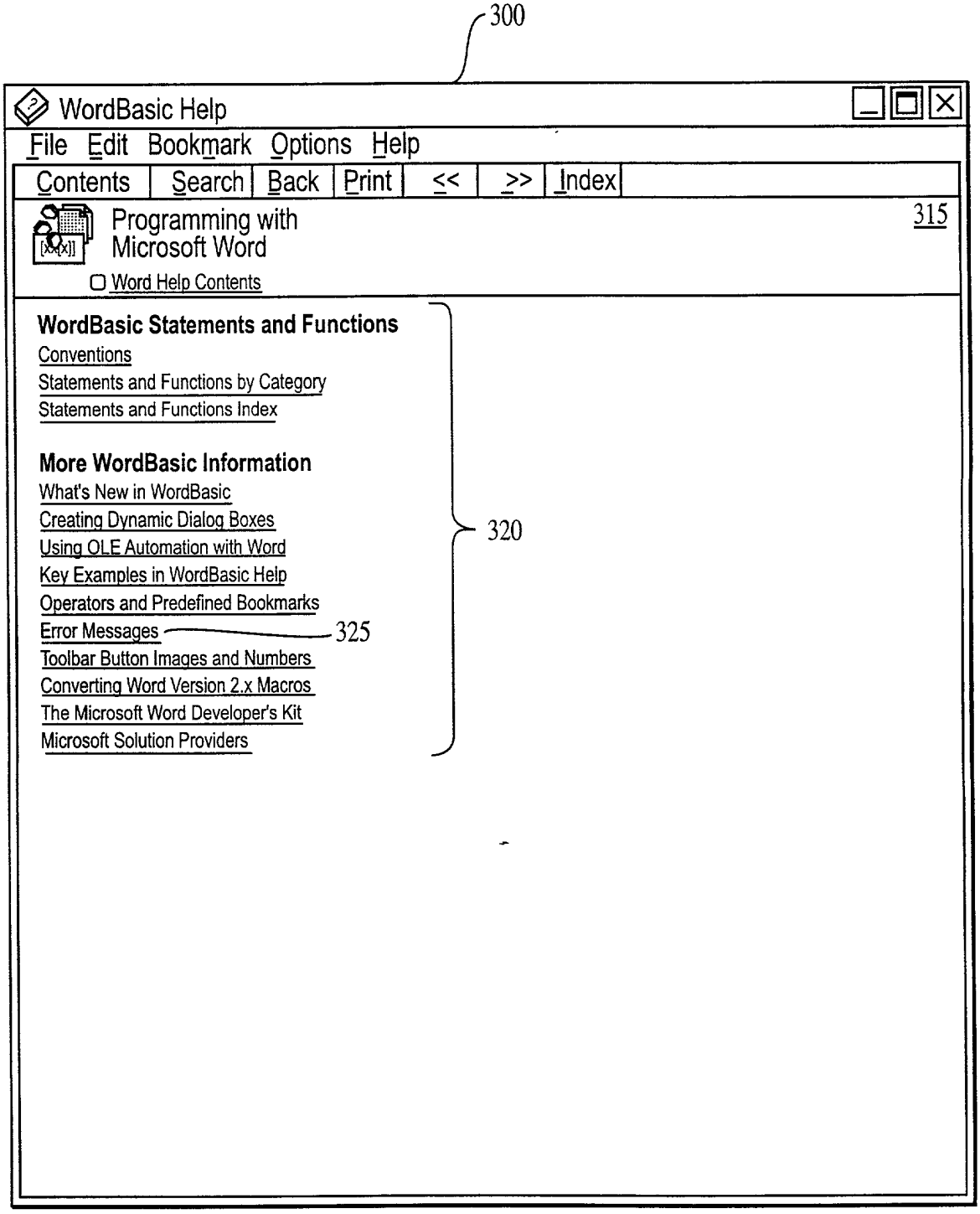


FIG. 3B
PRIOR ART

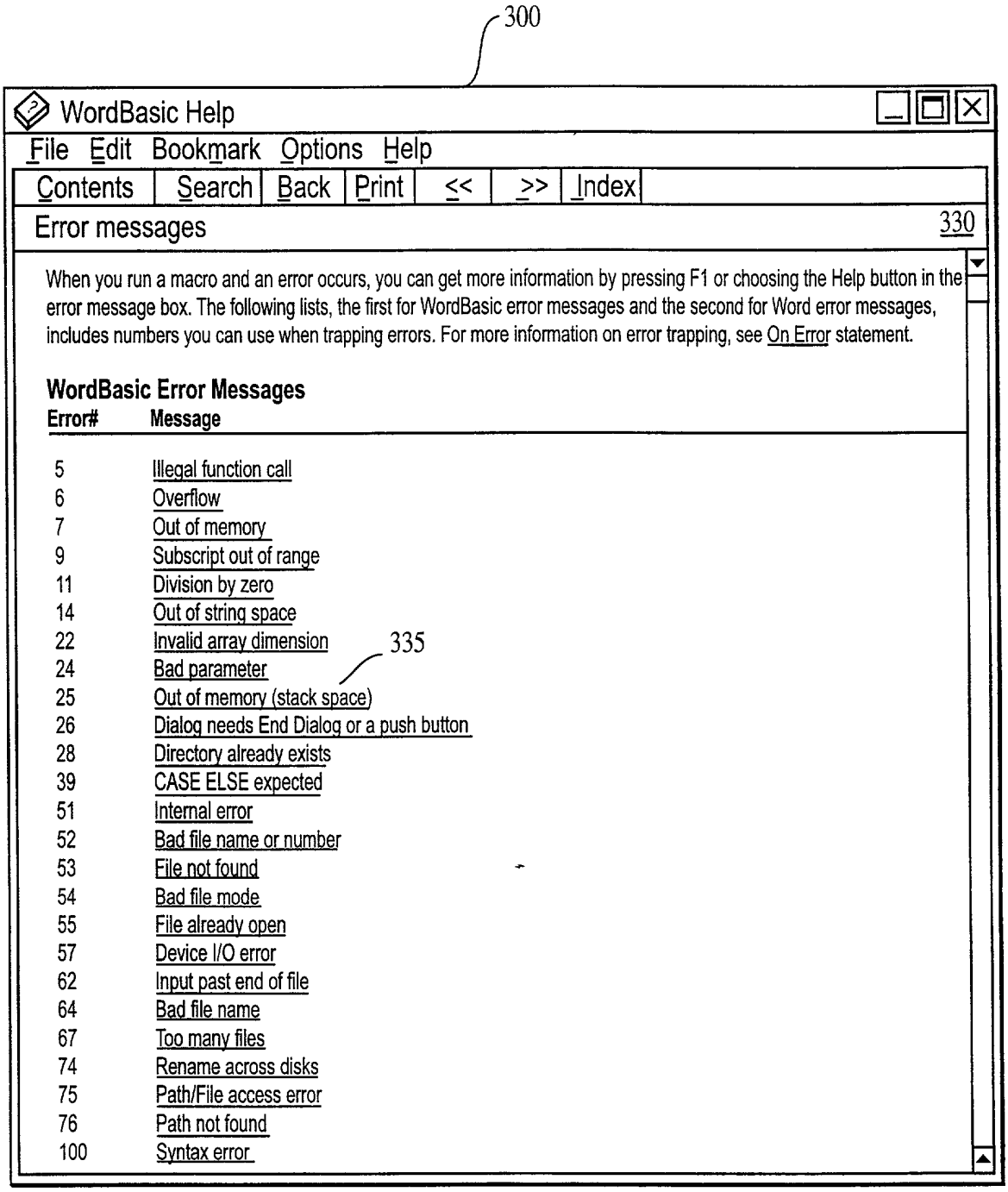


FIG. 3C
PRIOR ART

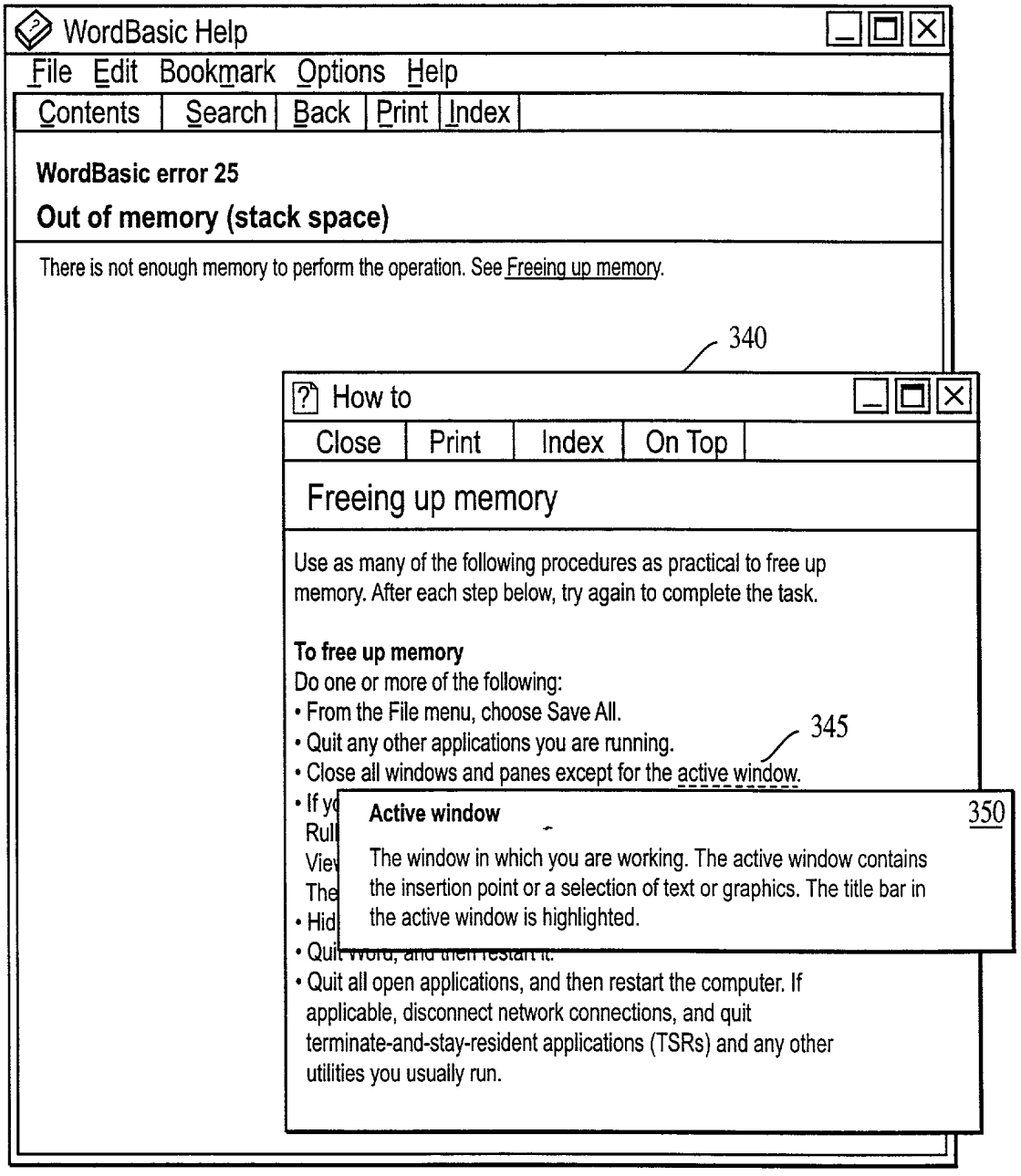


FIG. 3D
PRIOR ART

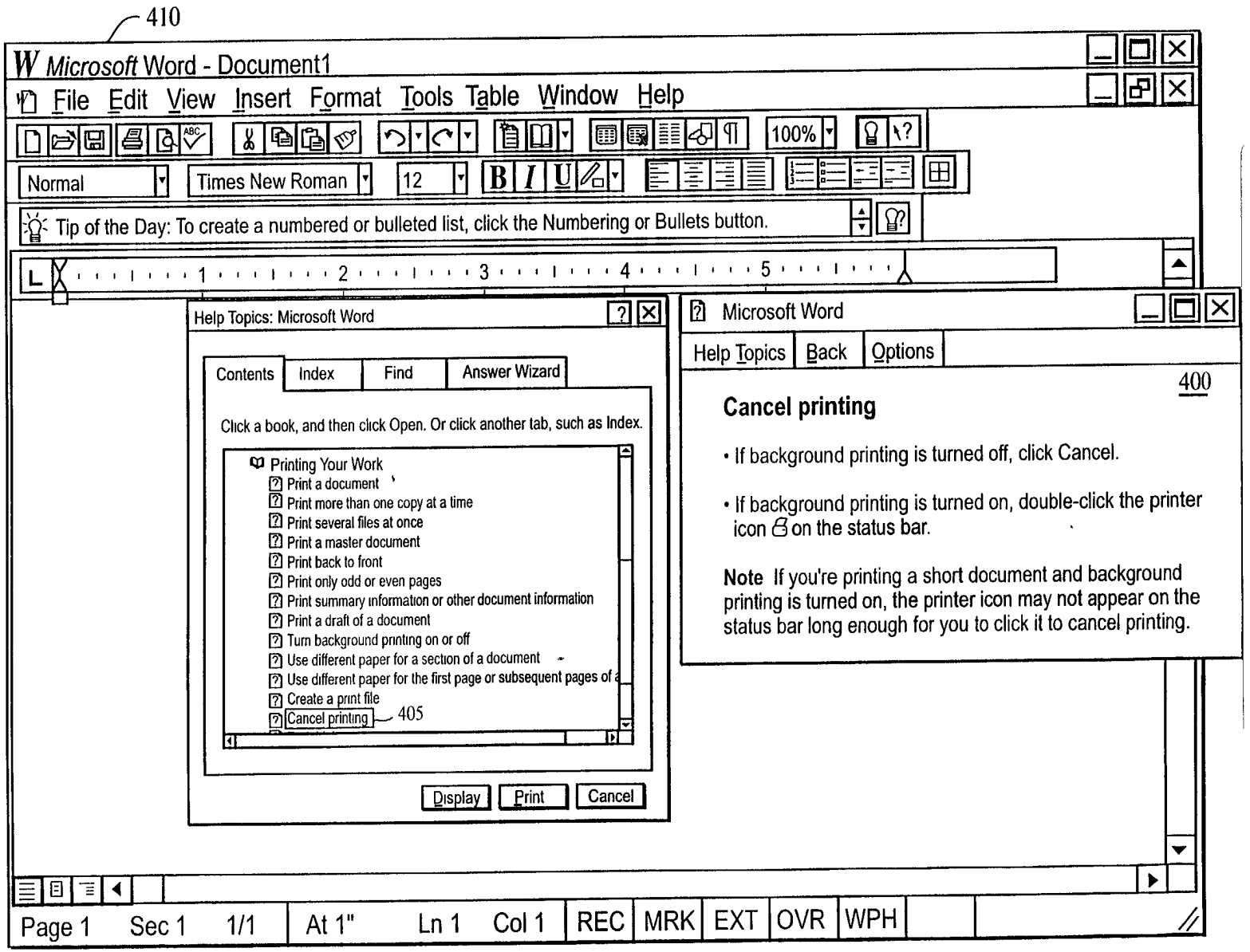


FIG. 4
PRIOR ART

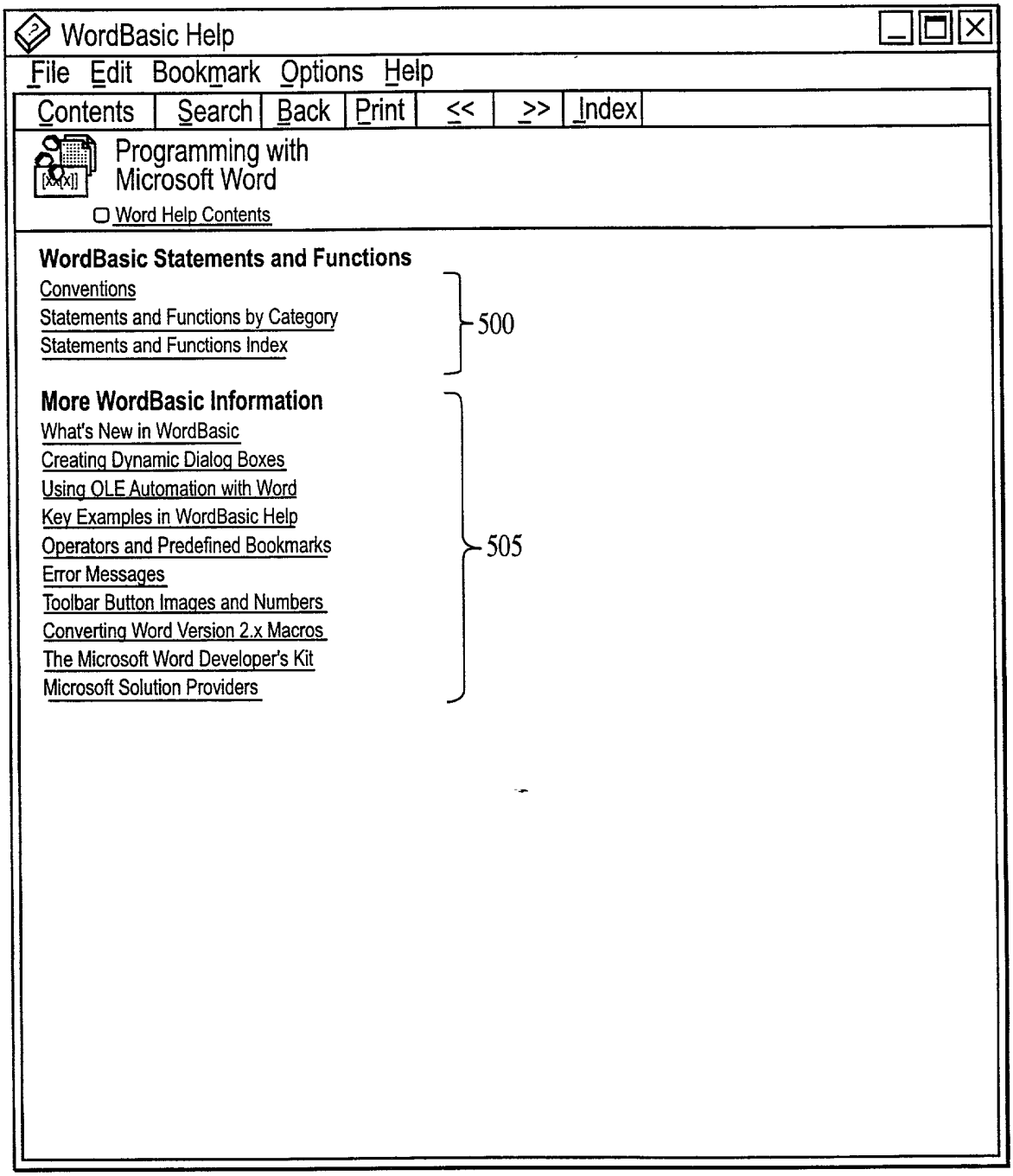


FIG. 5A
PRIOR ART

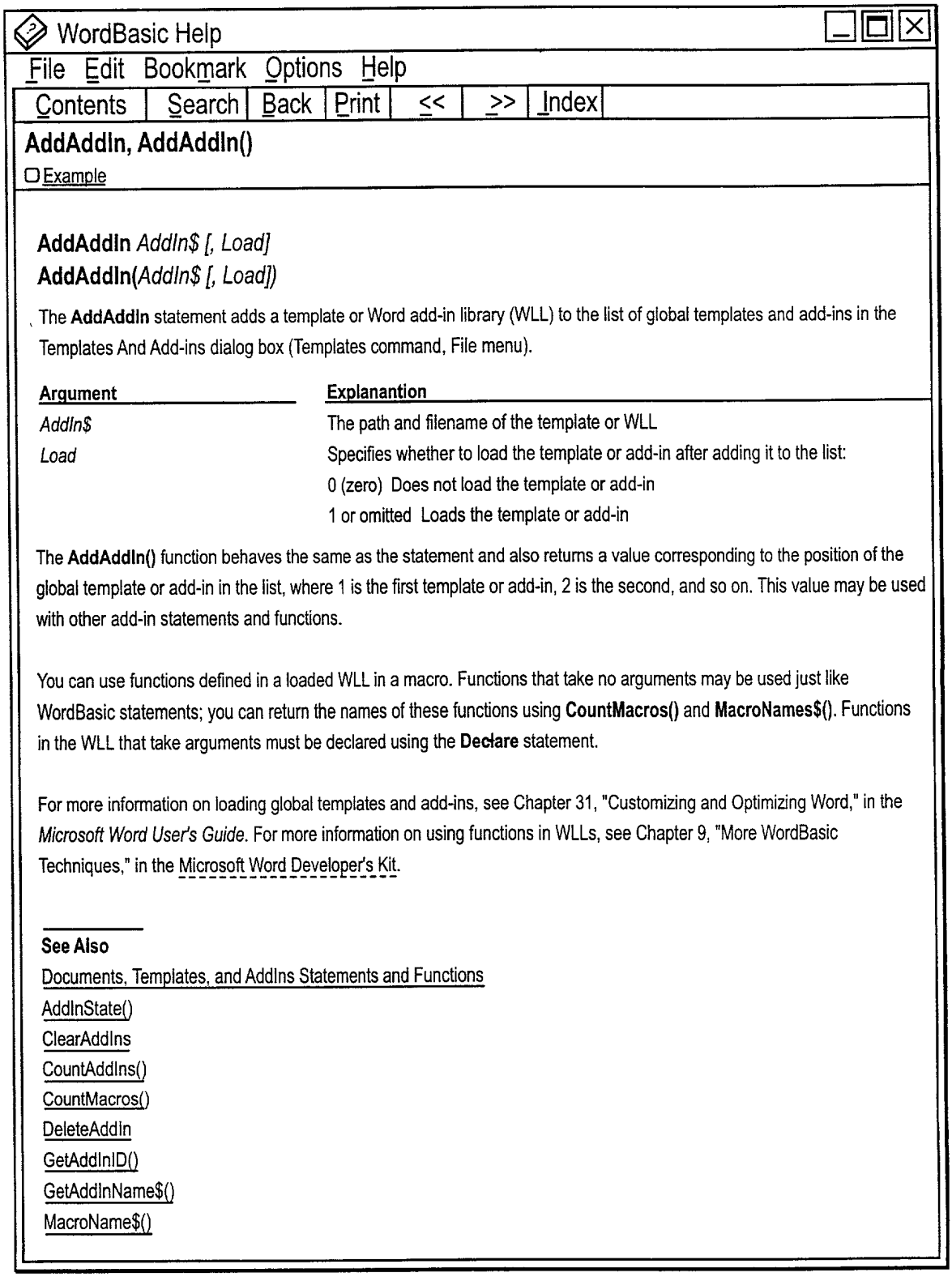


FIG. 5B
PRIOR ART

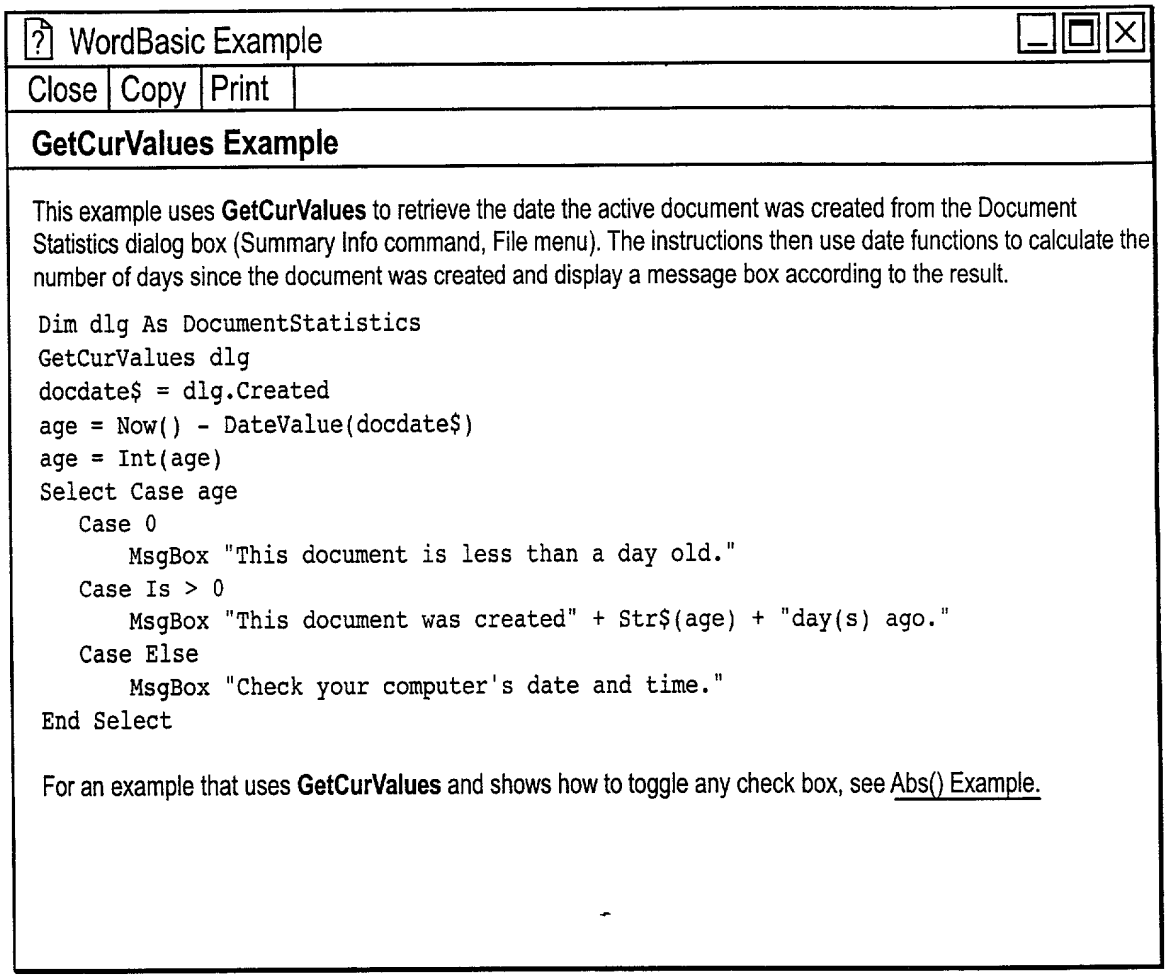
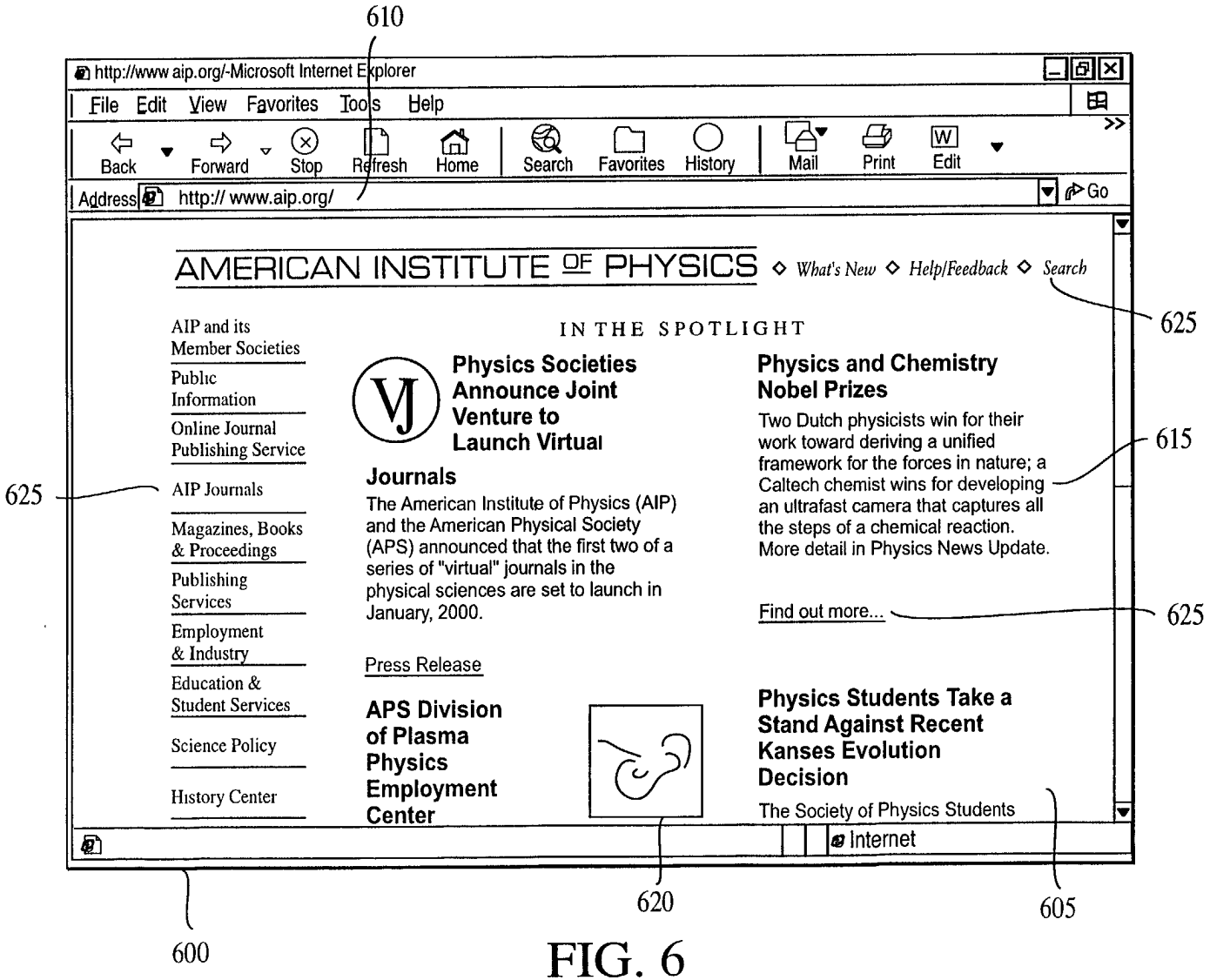


FIG. 5C
PRIOR ART


610
http://www.aip.org/-Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
Address http:// www.aip.org/
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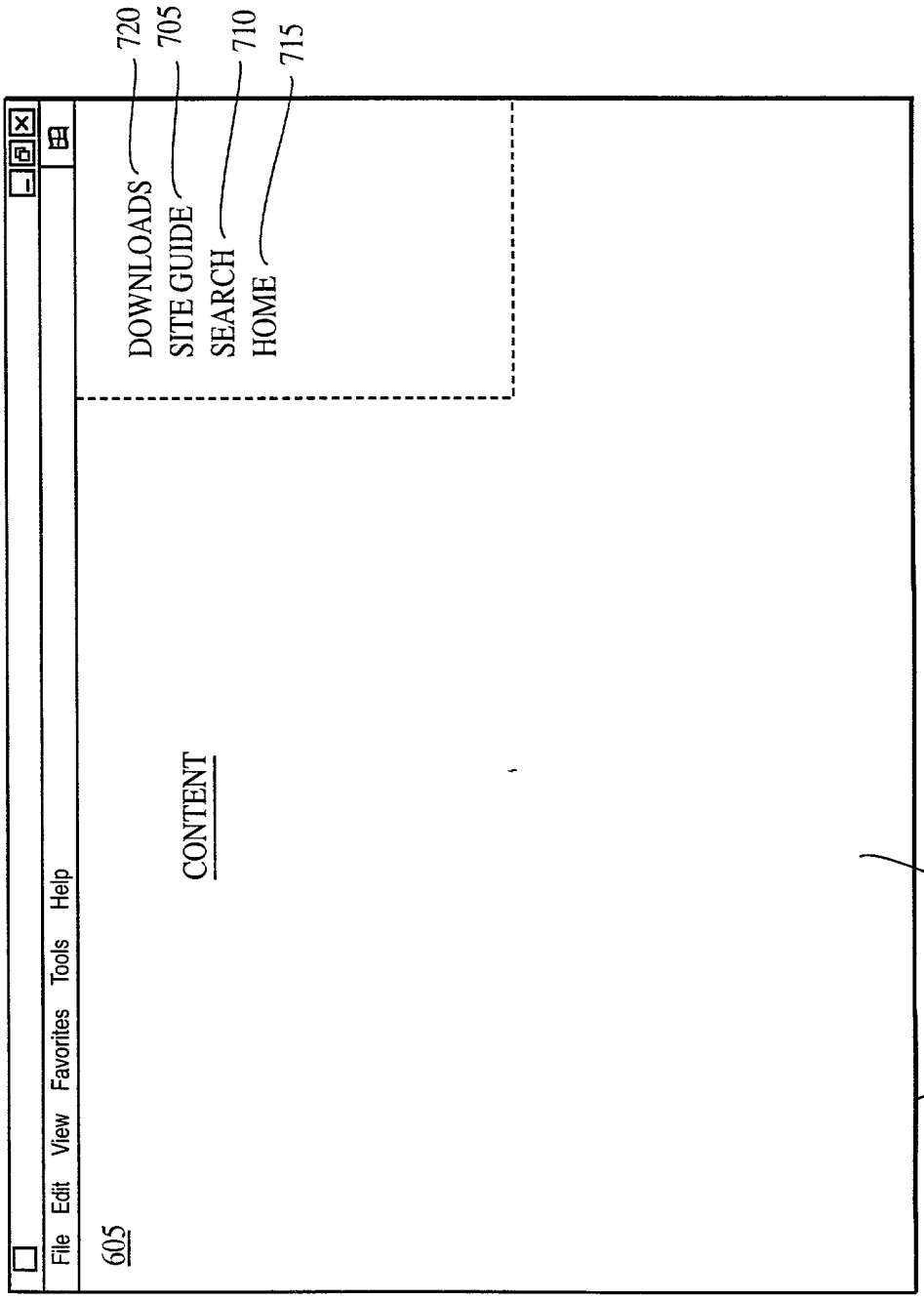
IN THE SPOTLIGHT
Physics Societies Announce Joint Venture to Launch Virtual Journals
The American Institute of Physics (AIP) and the American Physical Society (APS) announced that the first two of a series of "virtual" journals in the physical sciences are set to launch in January, 2000.
Press Release
APS Division of Plasma Physics Employment Center
Physics and Chemistry Nobel Prizes
Two Dutch physicists win for their work toward deriving a unified framework for the forces in nature; a Caltech chemist wins for developing an ultrafast camera that captures all the steps of a chemical reaction. More detail in Physics News Update.
615
Find out more...
625
Physics Students Take a Stand Against Recent Kanses Evolution Decision
The Society of Physics Students
Internet
600
620
605

FIG. 6


720
705
710
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DOWNLOADS
SITE GUIDE
SEARCH
HOME
File Edit View Favorites Tools Help
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CONTENT
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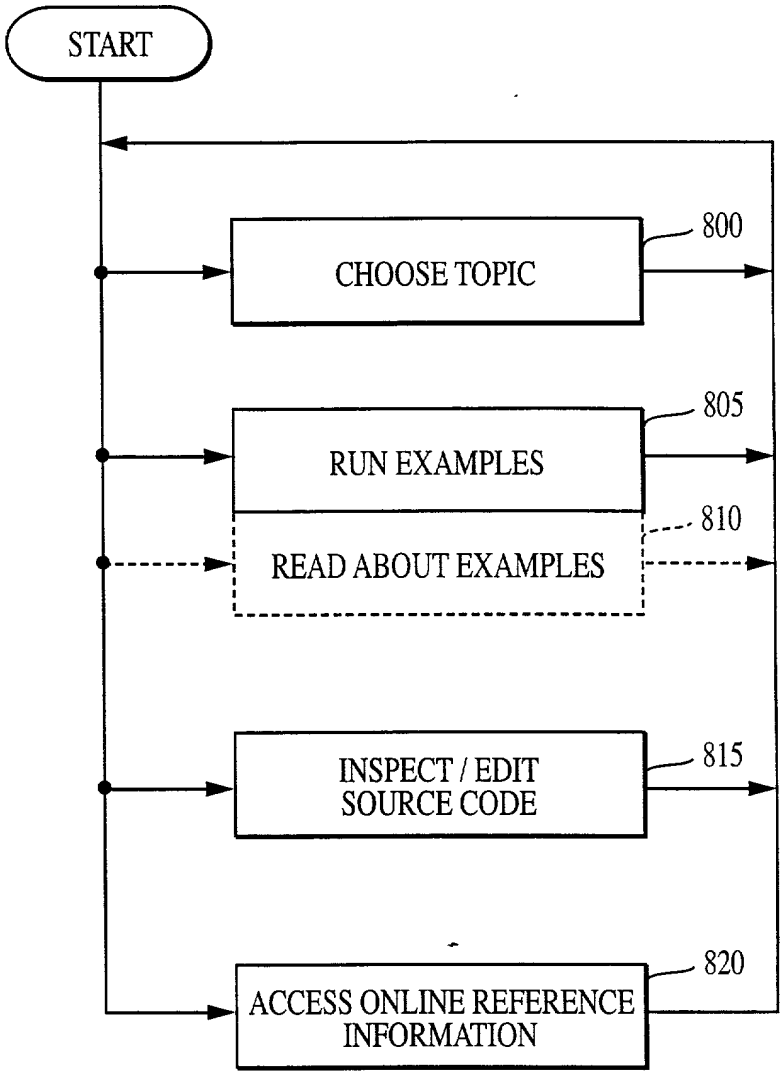
FIG. 7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RUN EXAMPLES
805
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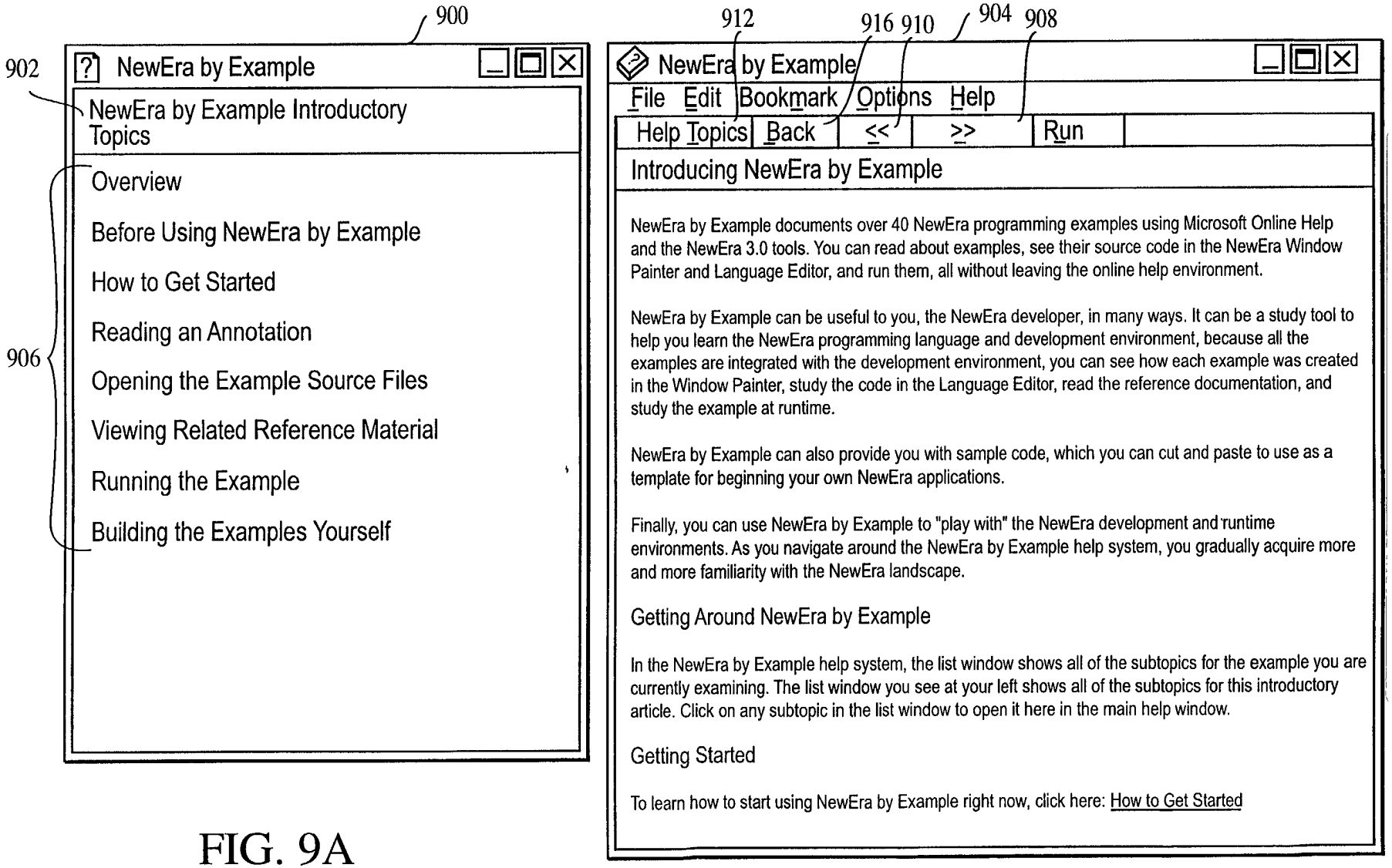
FIG. 8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Opening the Example Source Files
Viewing Related Reference Material
Running the Example
Building the Examples Yourself
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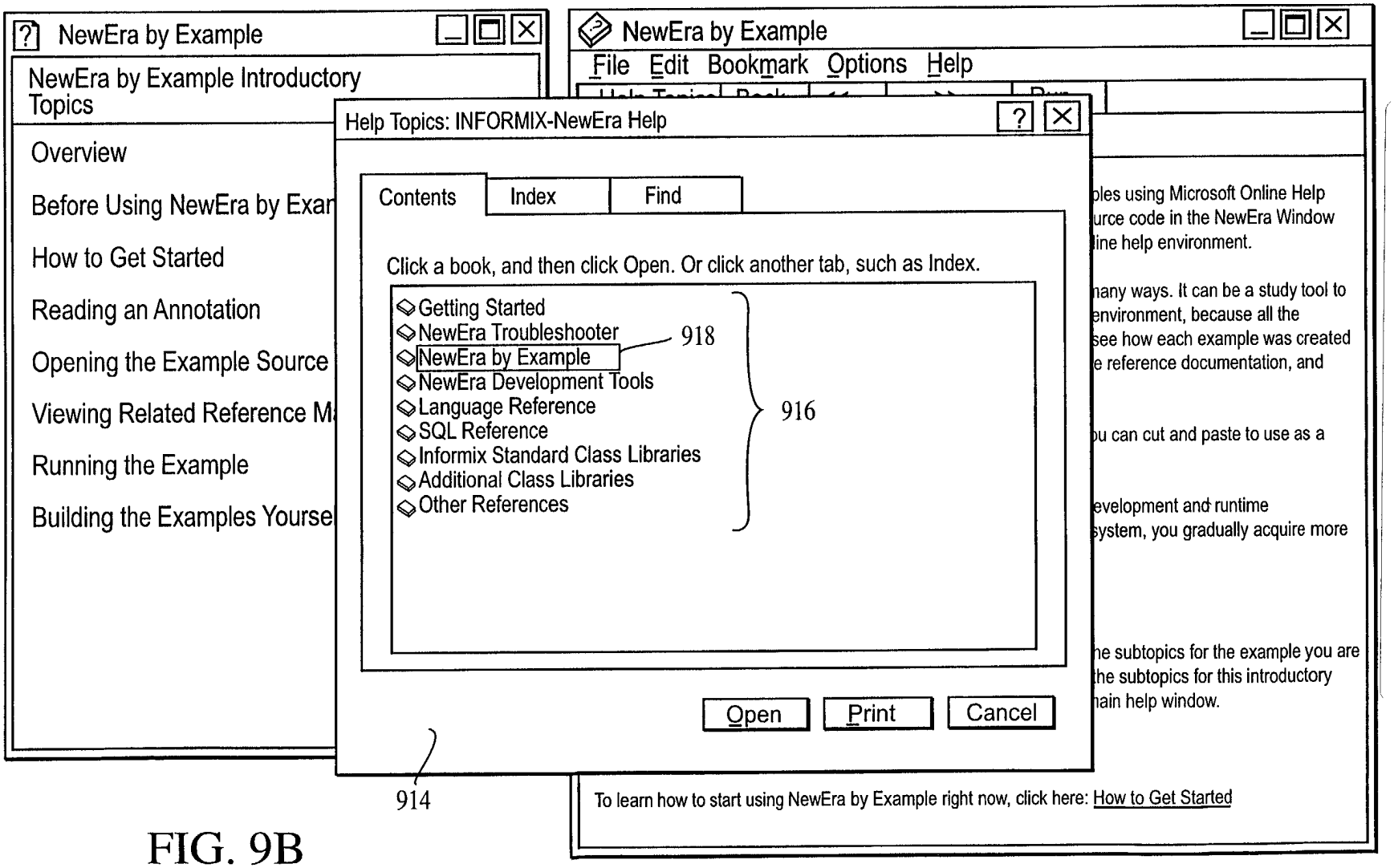
Introducing NewEra by Example
NewEra by Example documents over 40 NewEra programming examples using Microsoft Online Help and the NewEra 3.0 tools. You can read about examples, see their source code in the NewEra Window Painter and Language Editor, and run them, all without leaving the online help environment.
NewEra by Example can be useful to you, the NewEra developer, in many ways. It can be a study tool to help you learn the NewEra programming language and development environment, because all the examples are integrated with the development environment, you can see how each example was created in the Window Painter, study the code in the Language Editor, read the reference documentation, and study the example at runtime.
NewEra by Example can also provide you with sample code, which you can cut and paste to use as a template for beginning your own NewEra applications.
Finally, you can use NewEra by Example to "play with" the NewEra development and runtime environments. As you navigate around the NewEra by Example help system, you gradually acquire more and more familiarity with the NewEra landscape.
Getting Around NewEra by Example
In the NewEra by Example help system, the list window shows all of the subtopics for the example you are currently examining. The list window you see at your left shows all of the subtopics for this introductory article. Click on any subtopic in the list window to open it here in the main help window.
Getting Started
To learn how to start using NewEra by Example right now, click here: How to Get Started

FIG. 9A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Additional Class Libraries
Other References
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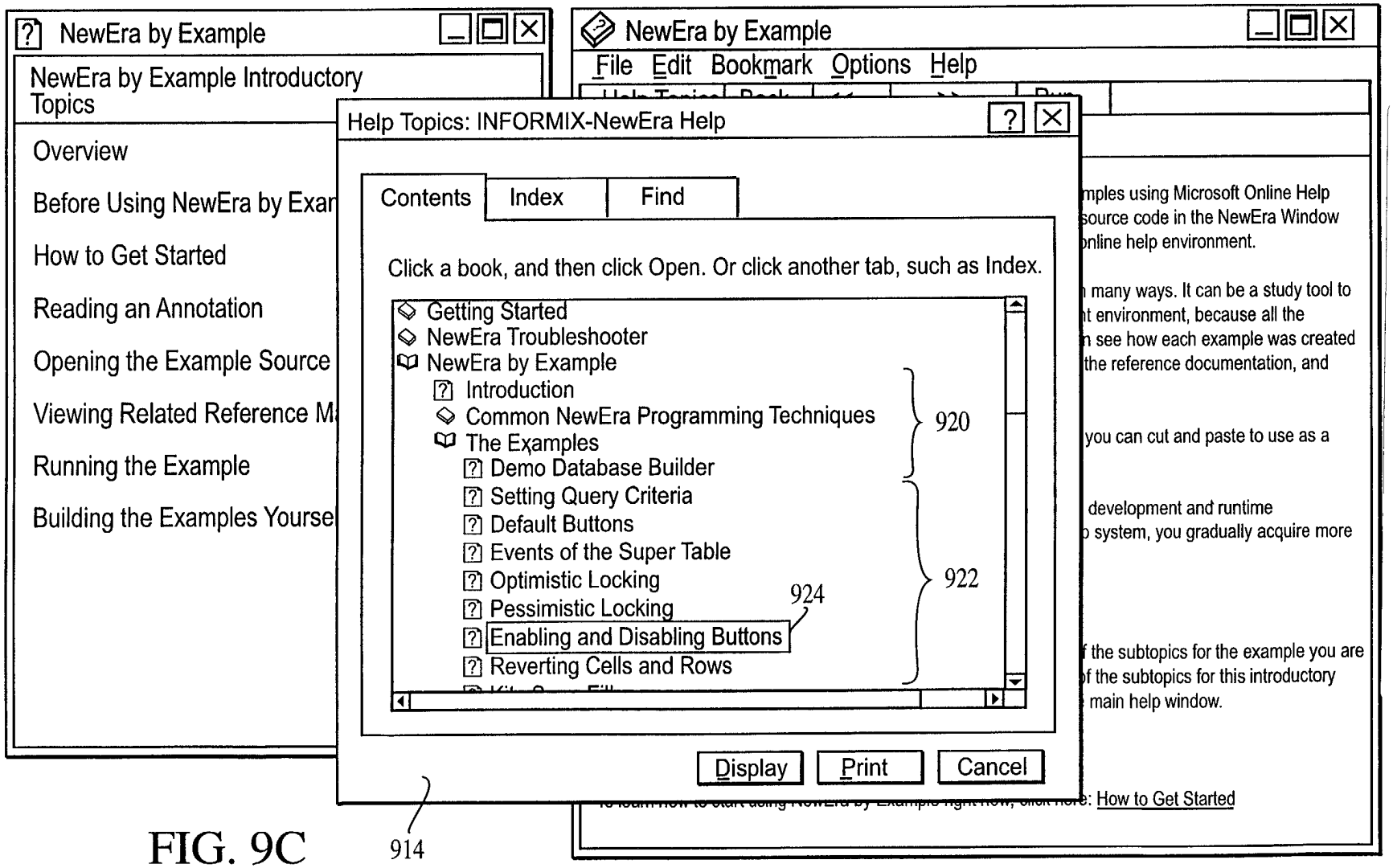
914
To learn how to start using NewEra by Example right now, click here: How to Get Started

FIG. 9B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Viewing Related Reference M
Running the Example
Building the Examples Yourse
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File Edit Bookmark Options Help
mples using Microsoft Online Help
source code in the NewEra Window
online help environment.
many ways. It can be a study tool to
t environment, because all the
n see how each example was created
the reference documentation, and
you can cut and paste to use as a
development and runtime
system, you gradually acquire more
the subtopics for the example you are
f the subtopics for this introductory
main help window.
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Setting Query Criteria
Default Buttons
Events of the Super Table
Optimistic Locking
Pessimistic Locking
Enabling and Disabling Buttons
Reverting Cells and Rows
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Display
Print
Cancel
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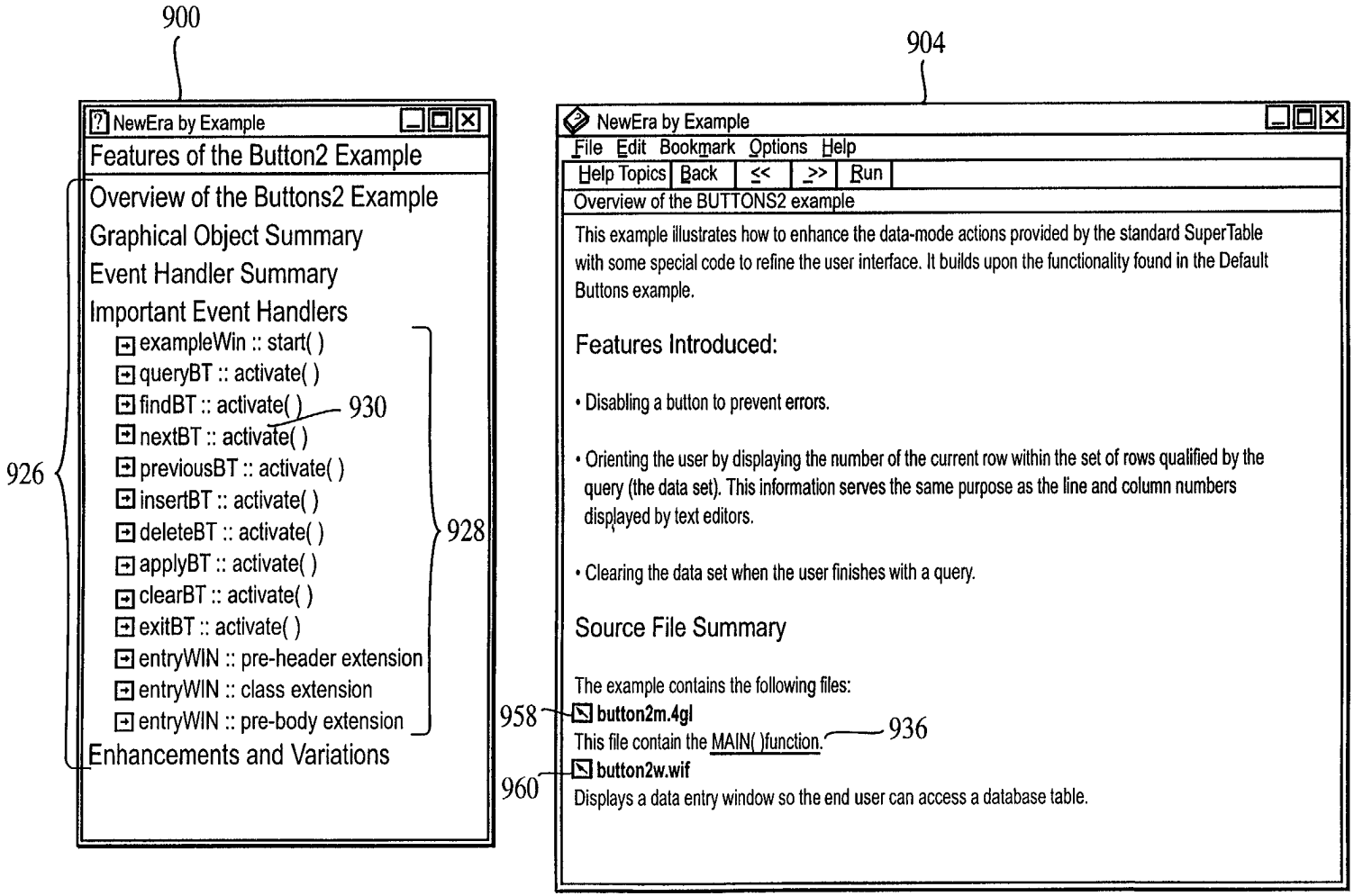
FIG. 9C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NewEra by Example
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Event Handler Summary
Important Event Handlers
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queryBT :: activate( )
findBT :: activate( )
nextBT :: activate( )
previousBT :: activate( )
insertBT :: activate( )
deleteBT :: activate( )
applyBT :: activate( )
clearBT :: activate( )
exitBT :: activate( )
entryWIN :: pre-header extension
entryWIN :: class extension
entryWIN :: pre-body extension
Enhancements and Variations
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928
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904
NewEra by Example
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Help Topics Back << >> Run
Overview of the BUTTONS2 example
This example illustrates how to enhance the data-mode actions provided by the standard SuperTable with some special code to refine the user interface. It builds upon the functionality found in the Default Buttons example.
Features Introduced:
• Disabling a button to prevent errors.
• Orienting the user by displaying the number of the current row within the set of rows qualified by the query (the data set). This information serves the same purpose as the line and column numbers displayed by text editors.
• Clearing the data set when the user finishes with a query.
Source File Summary
The example contains the following files:
958
button2m.4gl
This file contain the MAIN( )function.
936
960
button2w.wif
Displays a data entry window so the end user can access a database table.

FIG. 9D

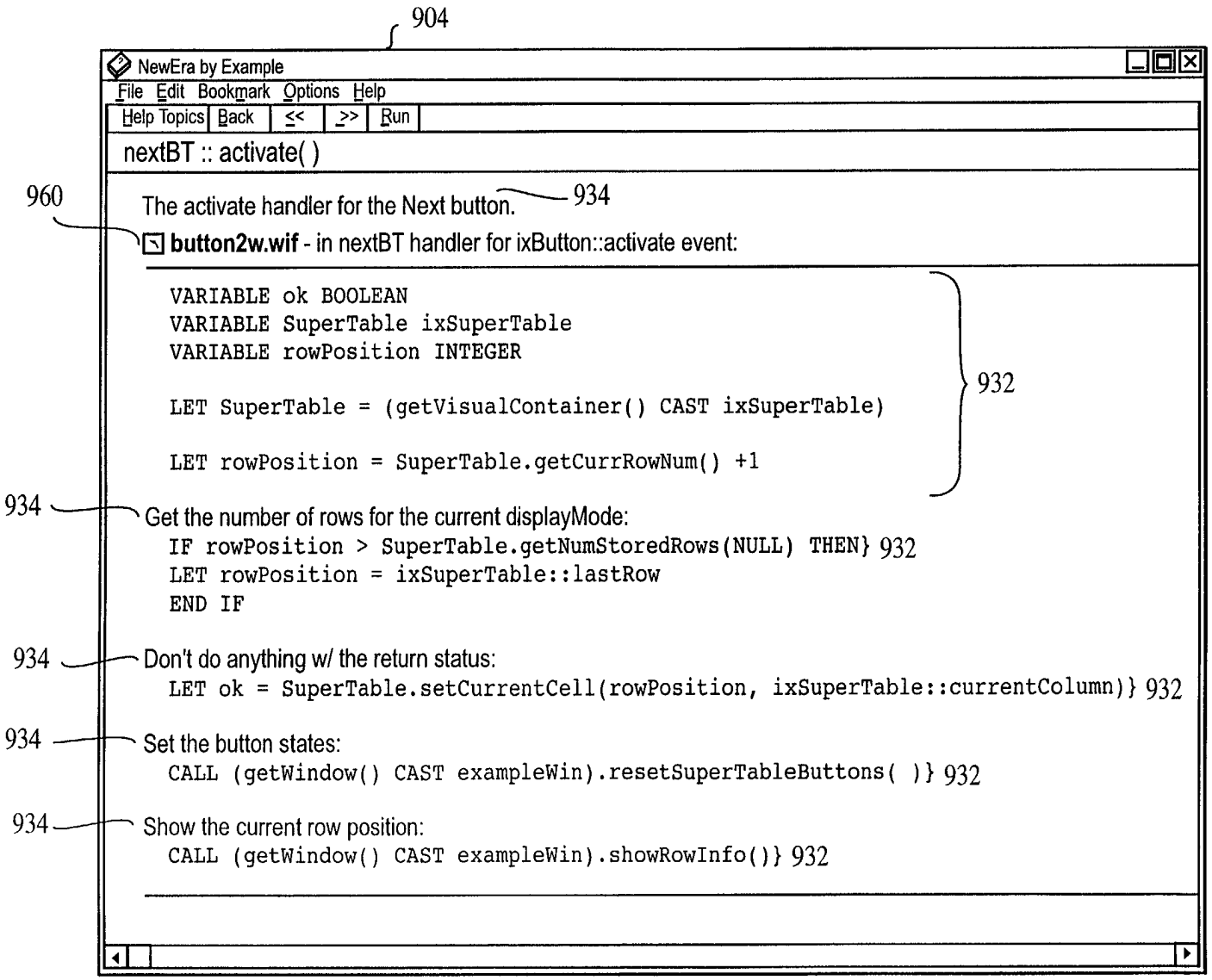

904
NewEra by Example
File Edit Bookmark Options Help
Help Topics Back << >> Run
nextBT :: activate( )
960
The activate handler for the Next button.
934
button2w.wif - in nextBT handler for ixButton::activate event:
VARIABLE ok BOOLEAN
VARIABLE SuperTable ixSuperTable
VARIABLE rowPosition INTEGER
LET SuperTable = (getVisualContainer() CAST ixSuperTable)
LET rowPosition = SuperTable.getCurrRowNum() +1
932
934
Get the number of rows for the current displayMode:
IF rowPosition > SuperTable.getNumStoredRows(NULL) THEN} 932
LET rowPosition = ixSuperTable::lastRow
END IF
934
Don't do anything w/ the return status:
LET ok = SuperTable.setCurrentCell(rowPosition, ixSuperTable::currentColumn)} 932
934
Set the button states:
CALL (getWindow() CAST exampleWin).resetSuperTableButtons( )} 932
934
Show the current row position:
CALL (getWindow() CAST exampleWin).showRowInfo()} 932

FIG. 9E

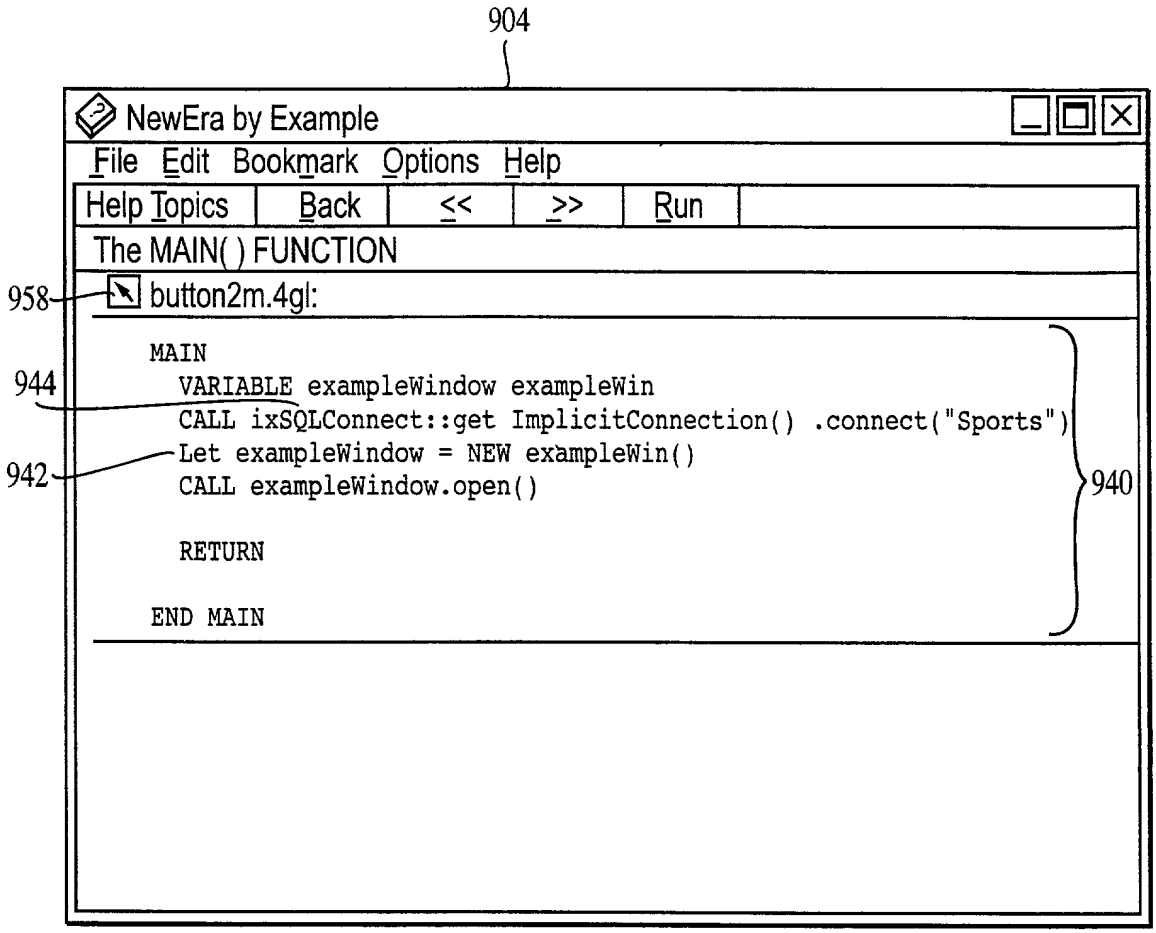

904
NewEra by Example
File Edit Bookmark Options Help
Help Topics Back << >> Run
The MAIN( ) FUNCTION
958
button2m.4gl:
MAIN
944
VARIABLE exampleWindow exampleWin
CALL ixSQLConnect::get ImplicitConnection() .connect("Sports")
942
Let exampleWindow = NEW exampleWin()
CALL exampleWindow.open()
940
RETURN
END MAIN

FIG. 9F

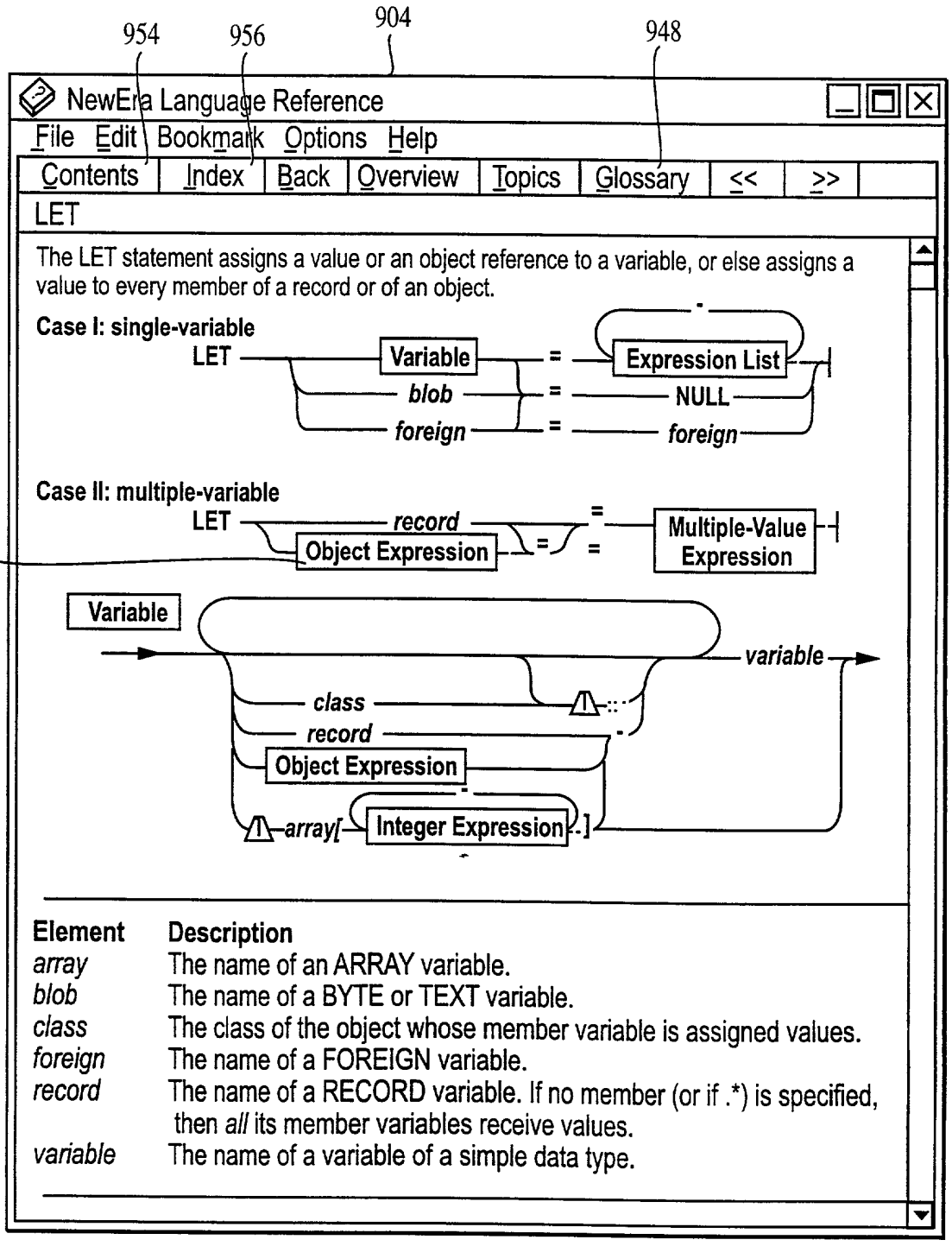

954
956
904
948
NewEra Language Reference
File Edit Bookmark Options Help
Contents Index Back Overview Topics Glossary << >>
LET
The LET statement assigns a value or an object reference to a variable, or else assigns a value to every member of a record or of an object.
Case I: single-variable
LET
Variable
blob
foreign
=
Expression List
NULL
foreign
Case II: multiple-variable
946
LET
record
Object Expression
=
Multiple-Value Expression
Variable
variable
class
record
Object Expression
array[
Integer Expression
.]
Element
Description
array
The name of an ARRAY variable.
blob
The name of a BYTE or TEXT variable.
class
The class of the object whose member variable is assigned values.
foreign
The name of a FOREIGN variable.
record
The name of a RECORD variable. If no member (or if .*) is specified, then all its member variables receive values.
variable
The name of a variable of a simple data type.

FIG. 9G

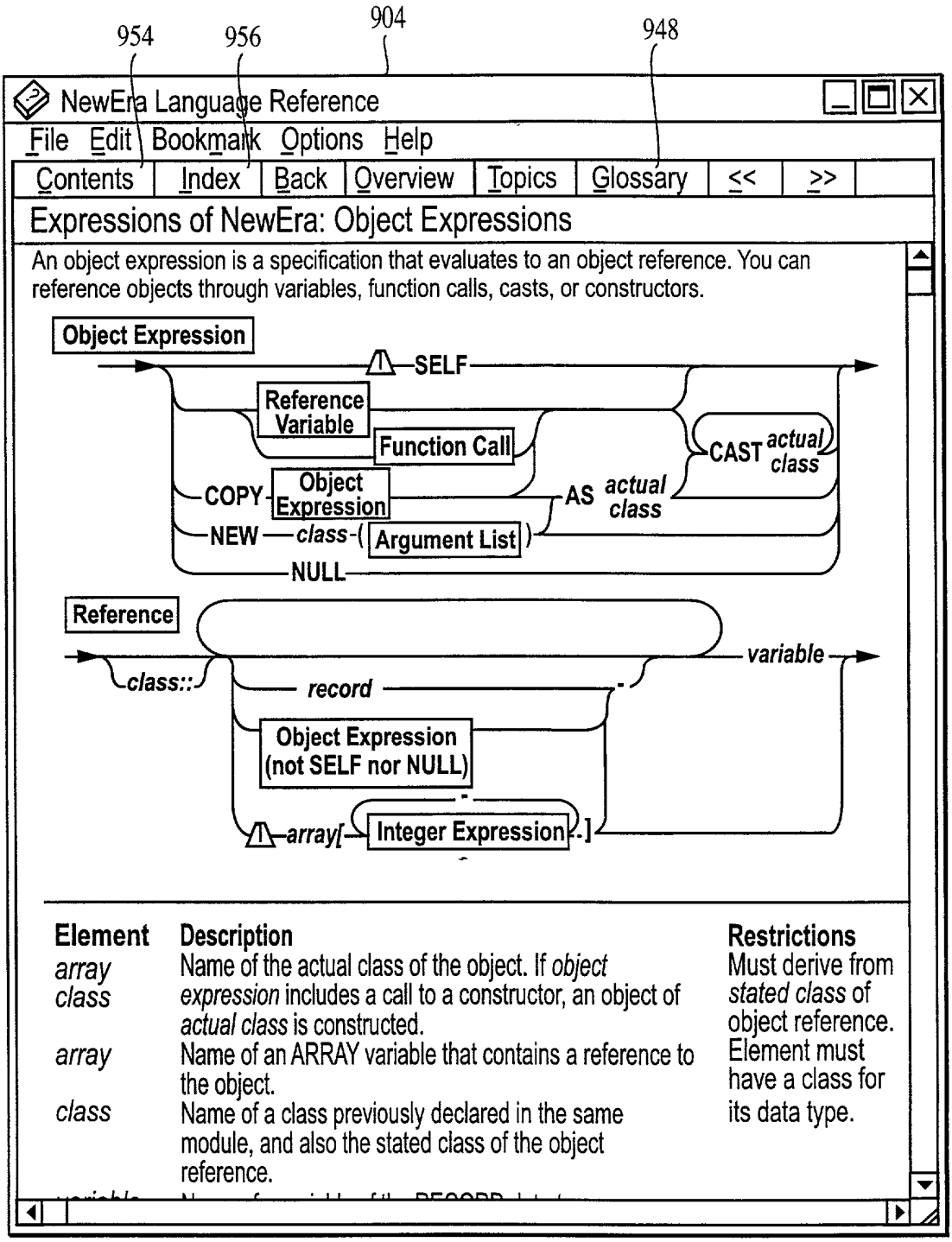
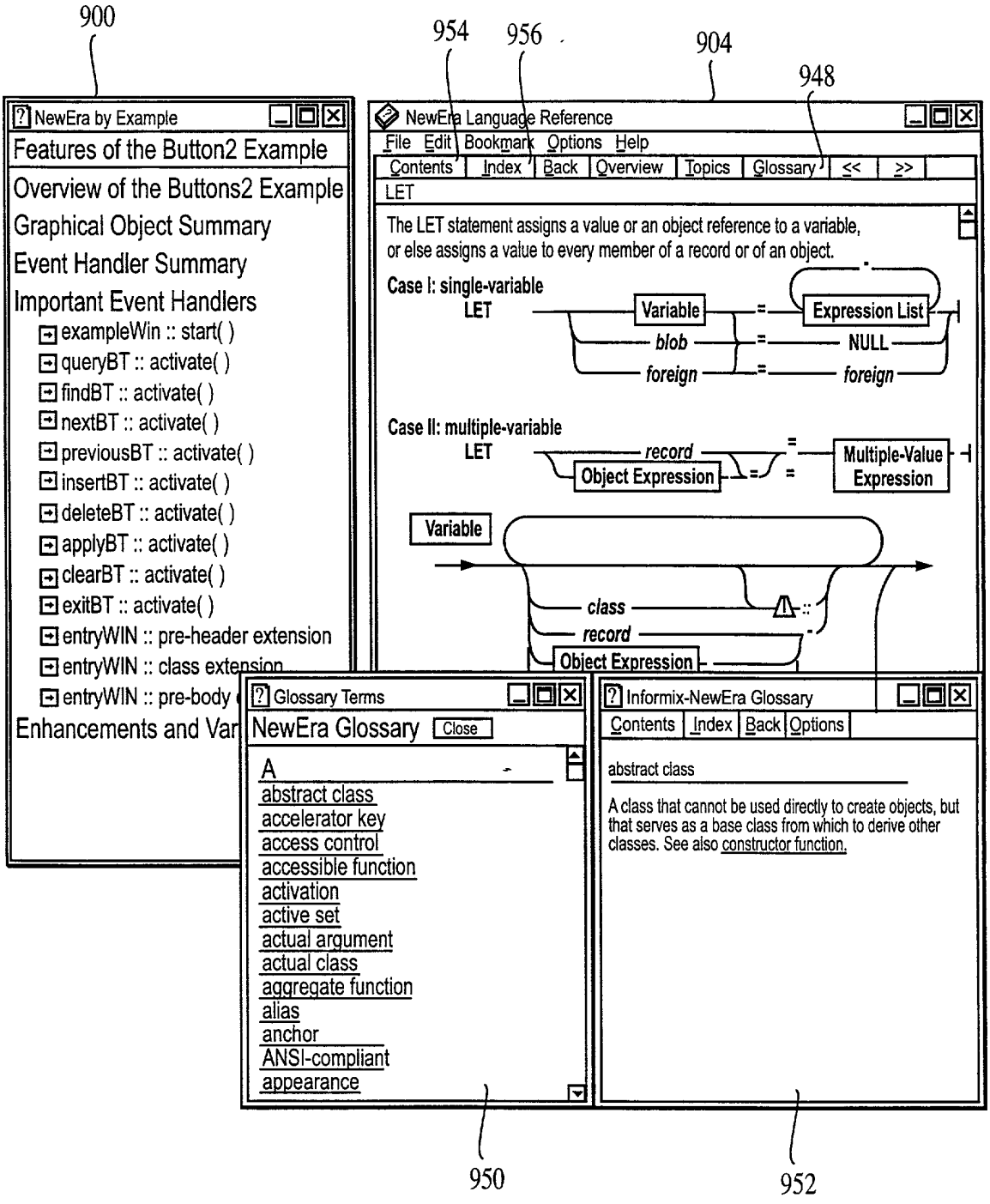

954
956
904
948
NewEra Language Reference
File Edit Bookmark Options Help
Contents Index Back Overview Topics Glossary << >>
Expressions of NewEra: Object Expressions
An object expression is a specification that evaluates to an object reference. You can reference objects through variables, function calls, casts, or constructors.
Object Expression
SELF
Reference Variable
Function Call
CAST actual class
COPY Object Expression
AS actual class
NEW class (Argument List)
NULL
Reference
variable
class::
record
Object Expression (not SELF nor NULL)
array[Integer Expression]
Element
Description
Restrictions
array
Name of the actual class of the object. If object expression includes a call to a constructor, an object of actual class is constructed.
Must derive from stated class of object reference.
class
array
Name of an ARRAY variable that contains a reference to the object.
Element must have a class for its data type.
class
Name of a class previously declared in the same module, and also the stated class of the object reference.

FIG. 9H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nextBT :: activate( )
previousBT :: activate( )
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deleteBT :: activate( )
applyBT :: activate( )
clearBT :: activate( )
exitBT :: activate( )
entryWIN :: pre-header extension
entryWIN :: class extension
entryWIN :: pre-body
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LET
The LET statement assigns a value or an object reference to a variable, or else assigns a value to every member of a record or of an object.
Case I: single-variable
LET
Variable
Expression List
blob
NULL
foreign
foreign
Case II: multiple-variable
LET
record
Object Expression
Multiple-Value Expression
Variable
class
record
Object Expression
Glossary Terms
NewEra Glossary
Close
A
abstract class
accelerator key
access control
accessible function
activation
active set
actual argument
actual class
aggregate function
alias
anchor
ANSI-compliant
appearance
Informix-NewEra Glossary
Contents Index Back Options
abstract class
A class that cannot be used directly to create objects, but that serves as a base class from which to derive other classes. See also constructor function.
950
952

FIG. 9I

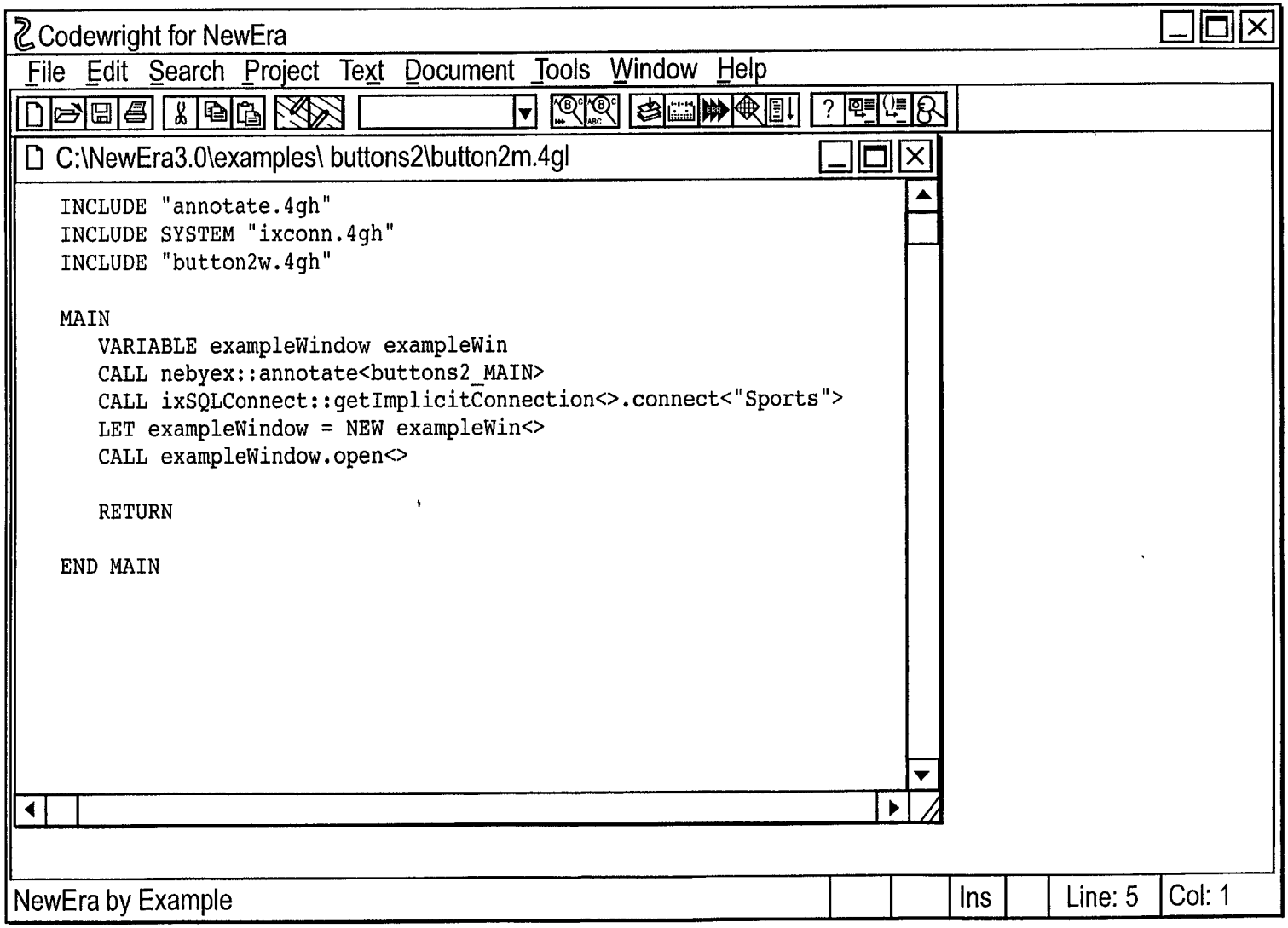

Codewright for NewEra
File Edit Search Project Text Document Tools Window Help
C:\NewEra3.0\examples\ buttons2\button2m.4gl
INCLUDE "annotate.4gh"
INCLUDE SYSTEM "ixconn.4gh"
INCLUDE "button2w.4gh"
MAIN
VARIABLE exampleWindow exampleWin
CALL nebyex::annotate<buttons2_MAIN>
CALL ixSQLConnect::getImplicitConnection<>.connect<"Sports">
LET exampleWindow = NEW exampleWin<>
CALL exampleWindow.open<>
RETURN
END MAIN
NewEra by Example
Ins
Line: 5
Col: 1

FIG. 9J

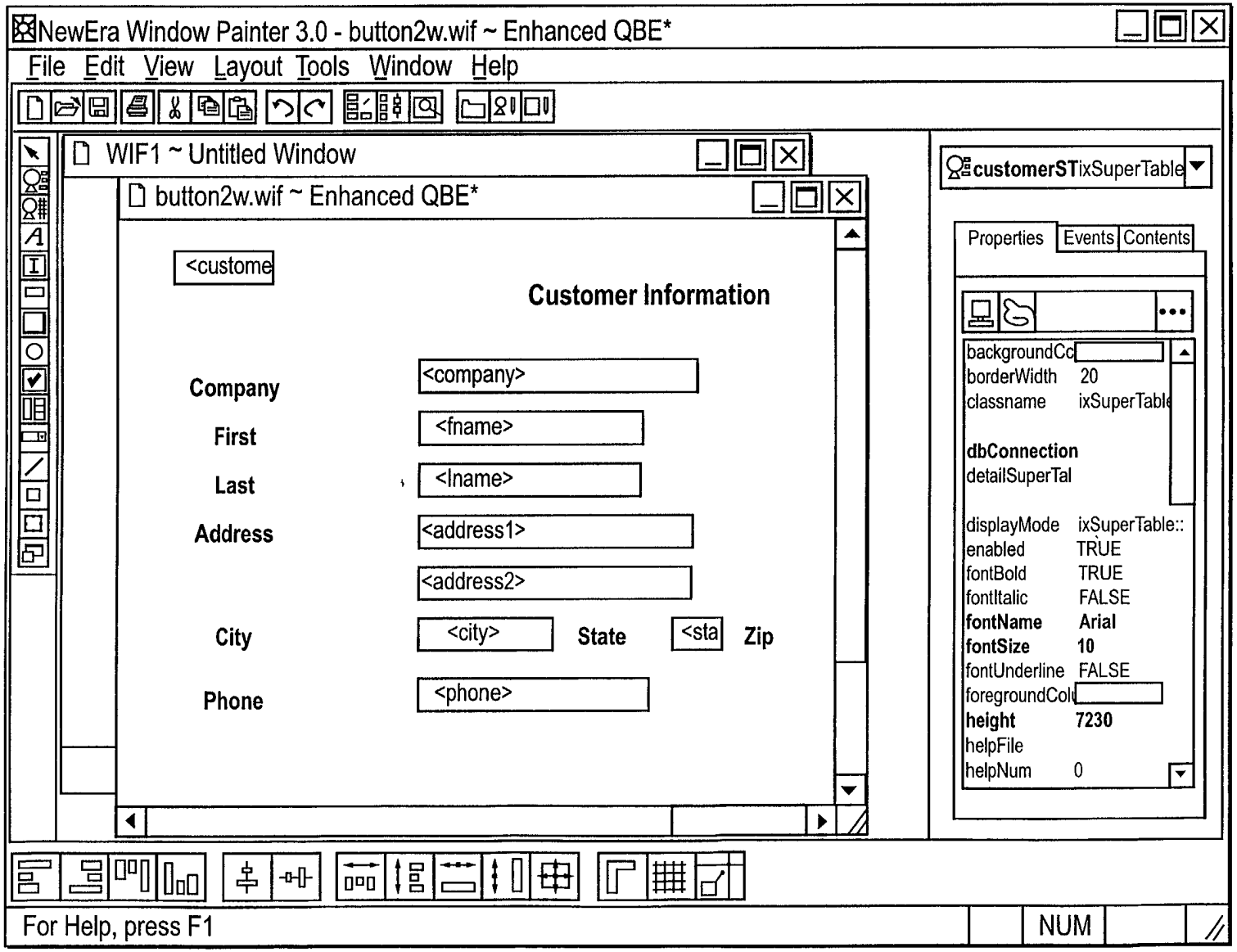
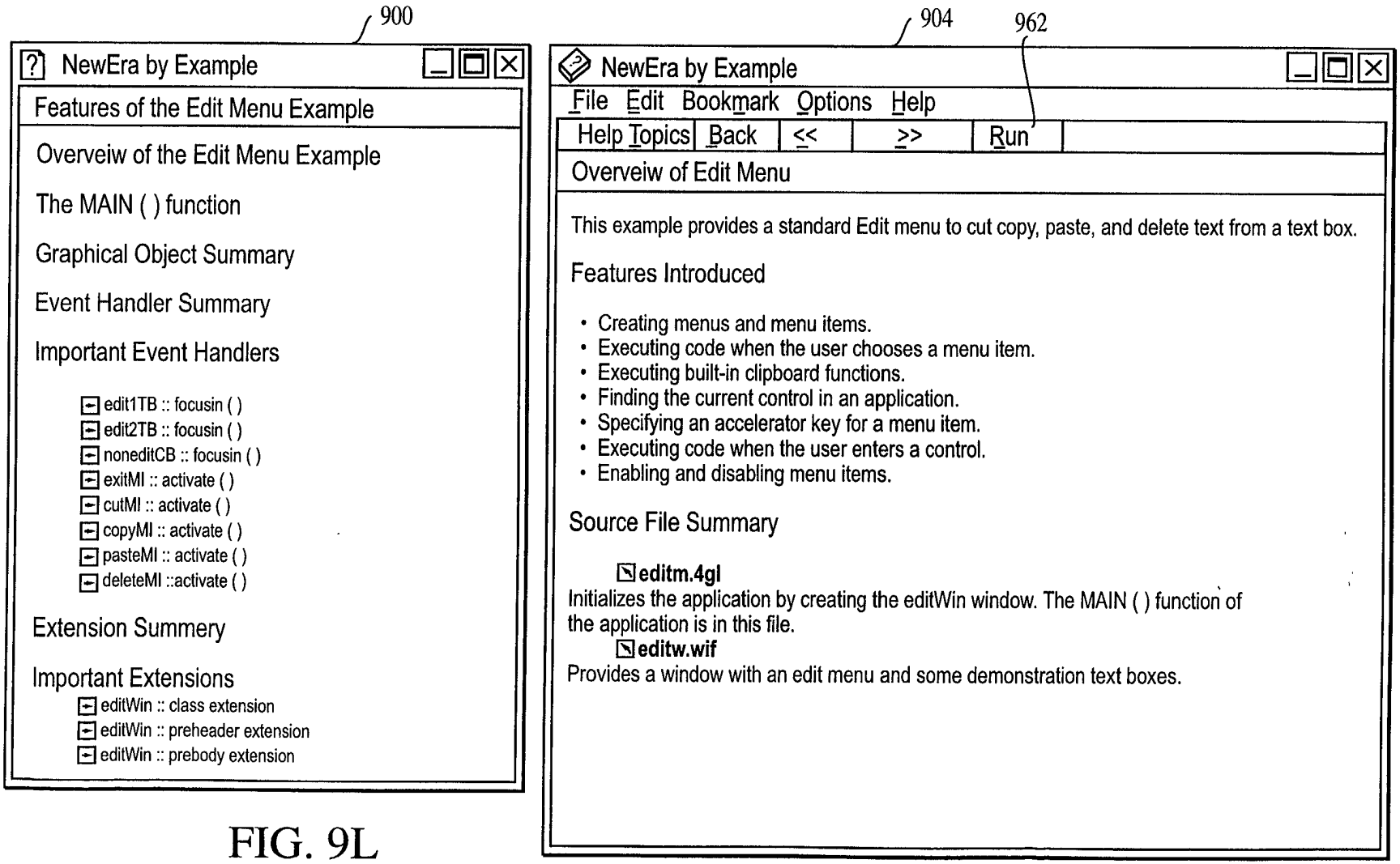

NewEra Window Painter 3.0 - button2w.wif ~ Enhanced QBE*
File Edit View Layout Tools Window Help
WIF1 ~ Untitled Window
button2w.wif ~ Enhanced QBE*
<custome
Customer Information
Company
<company>
First
<fname>
Last
<lname>
Address
<address1>
<address2>
City
<city>
State
<sta
Zip
Phone
<phone>
customerSTixSuperTable
Properties
Events
Contents
backgroundCc
borderWidth 20
classname ixSuperTable
dbConnection
detailSuperTal
displayMode ixSuperTable::
enabled TRUE
fontBold TRUE
fontItalic FALSE
fontName Arial
fontSize 10
fontUnderline FALSE
foregroundCol
height 7230
helpFile
helpNum 0
For Help, press F1
NUM

FIG. 9K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NewEra by Example
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Overveiw of the Edit Menu Example
The MAIN ( ) function
Graphical Object Summary
Event Handler Summary
Important Event Handlers
edit1TB :: focusin ( )
edit2TB :: focusin ( )
noneditCB :: focusin ( )
exitMI :: activate ( )
cutMI :: activate ( )
copyMI :: activate ( )
pasteMI :: activate ( )
deleteMI ::activate ( )
Extension Summery
Important Extensions
editWin :: class extension
editWin :: preheader extension
editWin :: prebody extension
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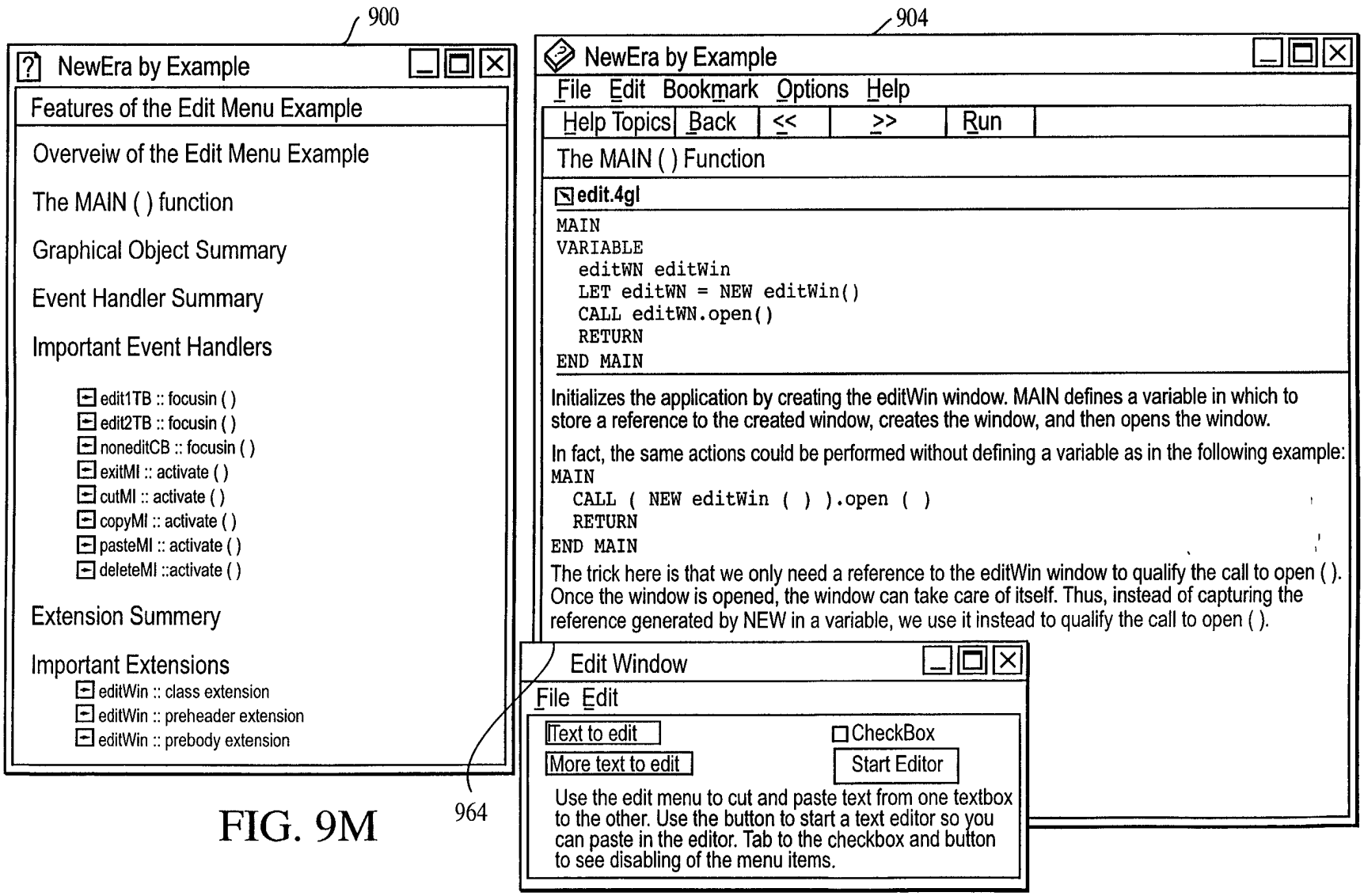
962
NewEra by Example
File Edit Bookmark Options Help
Help Topics Back << >> Run
Overveiw of Edit Menu
This example provides a standard Edit menu to cut copy, paste, and delete text from a text box.
Features Introduced
• Creating menus and menu items.
• Executing code when the user chooses a menu item.
• Executing built-in clipboard functions.
• Finding the current control in an application.
• Specifying an accelerator key for a menu item.
• Executing code when the user enters a control.
• Enabling and disabling menu items.
Source File Summary
editm.4gl
Initializes the application by creating the editWin window. The MAIN ( ) function of the application is in this file.
editw.wif
Provides a window with an edit menu and some demonstration text boxes.

FIG. 9L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edit1TB :: focusin ( )
edit2TB :: focusin ( )
noneditCB :: focusin ( )
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cutMI :: activate ( )
copyMI :: activate ( )
pasteMI :: activate ( )
deleteMI ::activate ( )
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Important Extensions
editWin :: class extension
editWin :: preheader extension
editWin :: prebody extension
904
NewEra by Example
File Edit Bookmark Options Help
Help Topics Back << >> Run
The MAIN ( ) Function
edit.4gl
MAIN
VARIABLE
editWN editWin
LET editWN = NEW editWin()
CALL editWN.open()
RETURN
END MAIN
Initializes the application by creating the editWin window. MAIN defines a variable in which to store a reference to the created window, creates the window, and then opens the window.
In fact, the same actions could be performed without defining a variable as in the following example:
MAIN
CALL (NEW editWin ( )).open ( )
RETURN
END MAIN
The trick here is that we only need a reference to the editWin window to qualify the call to open ( ). Once the window is opened, the window can take care of itself. Thus, instead of capturing the reference generated by NEW in a variable, we use it instead to qualify the call to open ( ).
Edit Window
File Edit
Text to edit
CheckBox
More text to edit
Start Editor
Use the edit menu to cut and paste text from one textbox to the other. Use the button to start a text editor so you can paste in the editor. Tab to the checkbox and button to see disabling of the menu items.
964

FIG. 9M

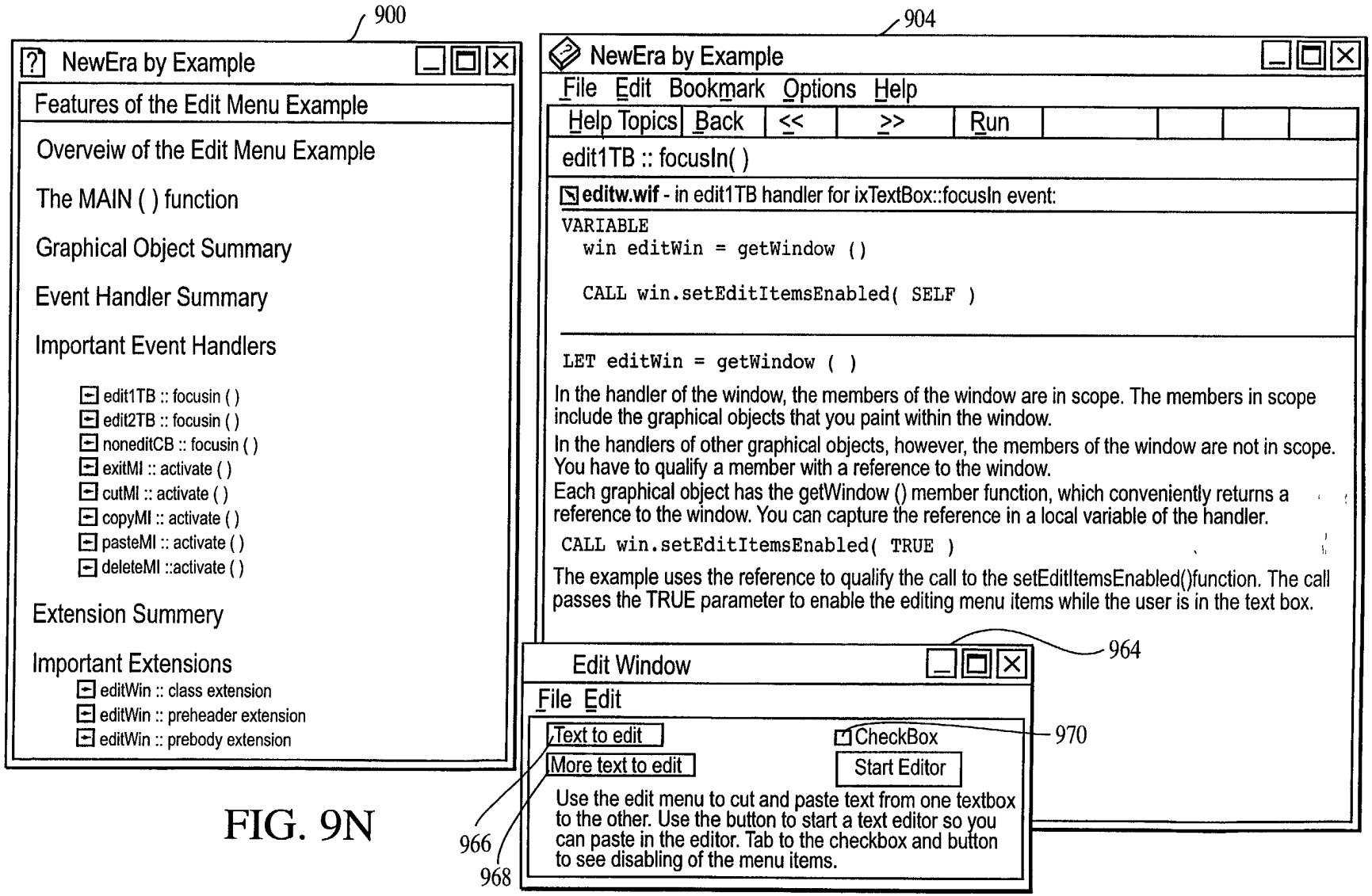

900
NewEra by Example
Features of the Edit Menu Example
Overveiw of the Edit Menu Example
The MAIN ( ) function
Graphical Object Summary
Event Handler Summary
Important Event Handlers
edit1TB :: focusin ( )
edit2TB :: focusin ( )
noneditCB :: focusin ( )
exitMI :: activate ( )
cutMI :: activate ( )
copyMI :: activate ( )
pasteMI :: activate ( )
deleteMI ::activate ( )
Extension Summery
Important Extensions
editWin :: class extension
editWin :: preheader extension
editWin :: prebody extension
904
NewEra by Example
File Edit Bookmark Options Help
Help Topics Back << >> Run
edit1TB :: focusIn( )
editw.wif - in edit1TB handler for ixTextBox::focusIn event:
VARIABLE
win editWin = getWindow ()
CALL win.setEditItemsEnabled(SELF)
LET editWin = getWindow ( )
In the handler of the window, the members of the window are in scope. The members in scope include the graphical objects that you paint within the window.
In the handlers of other graphical objects, however, the members of the window are not in scope. You have to qualify a member with a reference to the window.
Each graphical object has the getWindow () member function, which conveniently returns a reference to the window. You can capture the reference in a local variable of the handler.
CALL win.setEditItemsEnabled(TRUE)
The example uses the reference to qualify the call to the setEditItemsEnabled()function. The call passes the TRUE parameter to enable the editing menu items while the user is in the text box.
964
Edit Window
File Edit
Text to edit
More text to edit
CheckBox
Start Editor
970
Use the edit menu to cut and paste text from one textbox to the other. Use the button to start a text editor so you can paste in the editor. Tab to the checkbox and button to see disabling of the menu items.
966
968

FIG. 9N

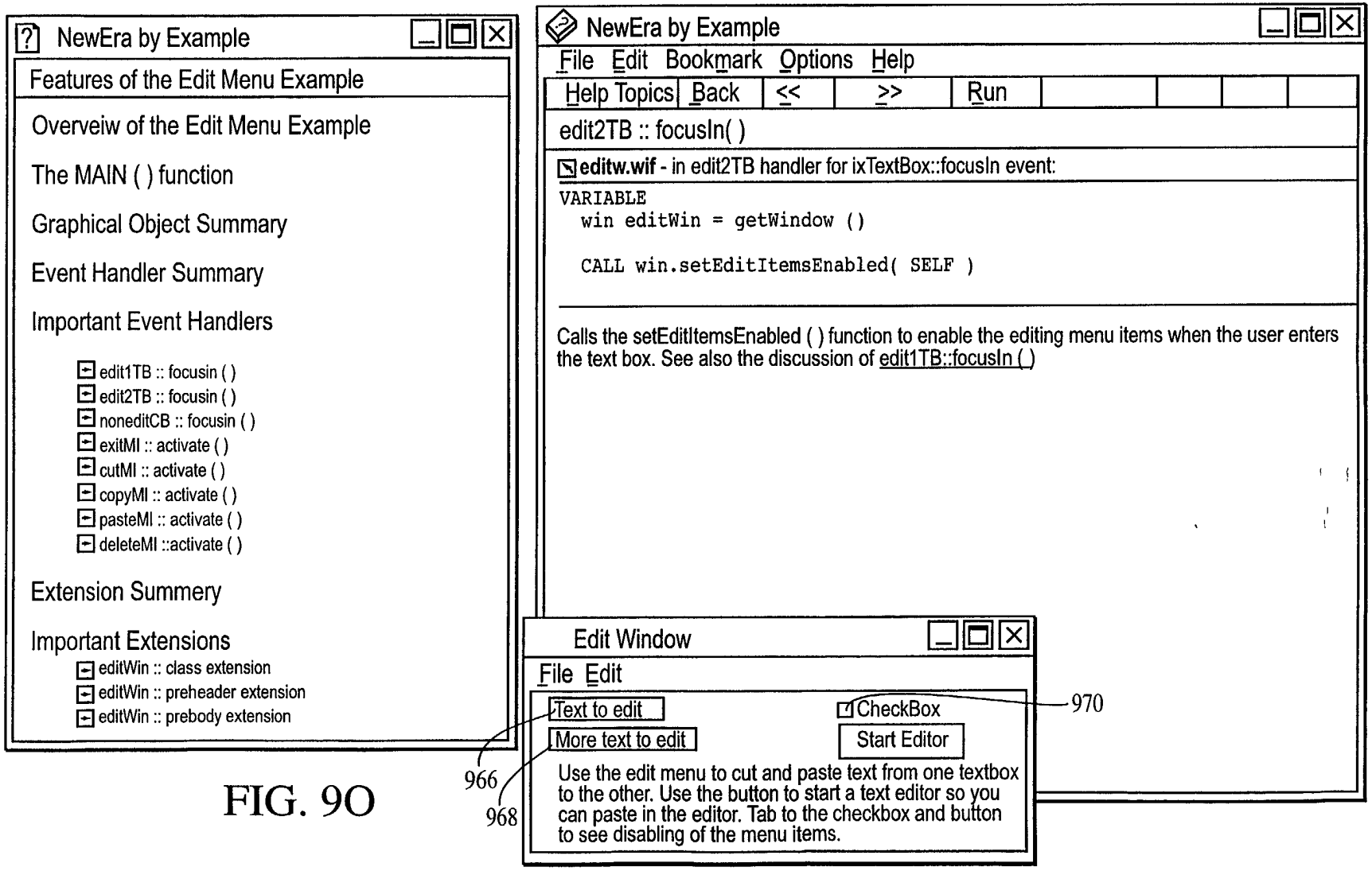

NewEra by Example
Features of the Edit Menu Example
Overveiw of the Edit Menu Example
The MAIN ( ) function
Graphical Object Summary
Event Handler Summary
Important Event Handlers
edit1TB :: focusin ( )
edit2TB :: focusin ( )
noneditCB :: focusin ( )
exitMI :: activate ( )
cutMI :: activate ( )
copyMI :: activate ( )
pasteMI :: activate ( )
deleteMI ::activate ( )
Extension Summery
Important Extensions
editWin :: class extension
editWin :: preheader extension
editWin :: prebody extension
NewEra by Example
File Edit Bookmark Options Help
Help Topics Back << >> Run
edit2TB :: focusIn( )
editw.wif - in edit2TB handler for ixTextBox::focusIn event:
VARIABLE
win editWin = getWindow ()
CALL win.setEditItemsEnabled(SELF)
Calls the setEditItemsEnabled ( ) function to enable the editing menu items when the user enters the text box. See also the discussion of edit1TB::focusIn ( )
Edit Window
File Edit
Text to edit
More text to edit
CheckBox
Start Editor
970
966
968
Use the edit menu to cut and paste text from one textbox to the other. Use the button to start a text editor so you can paste in the editor. Tab to the checkbox and button to see disabling of the menu items.

FIG. 9O

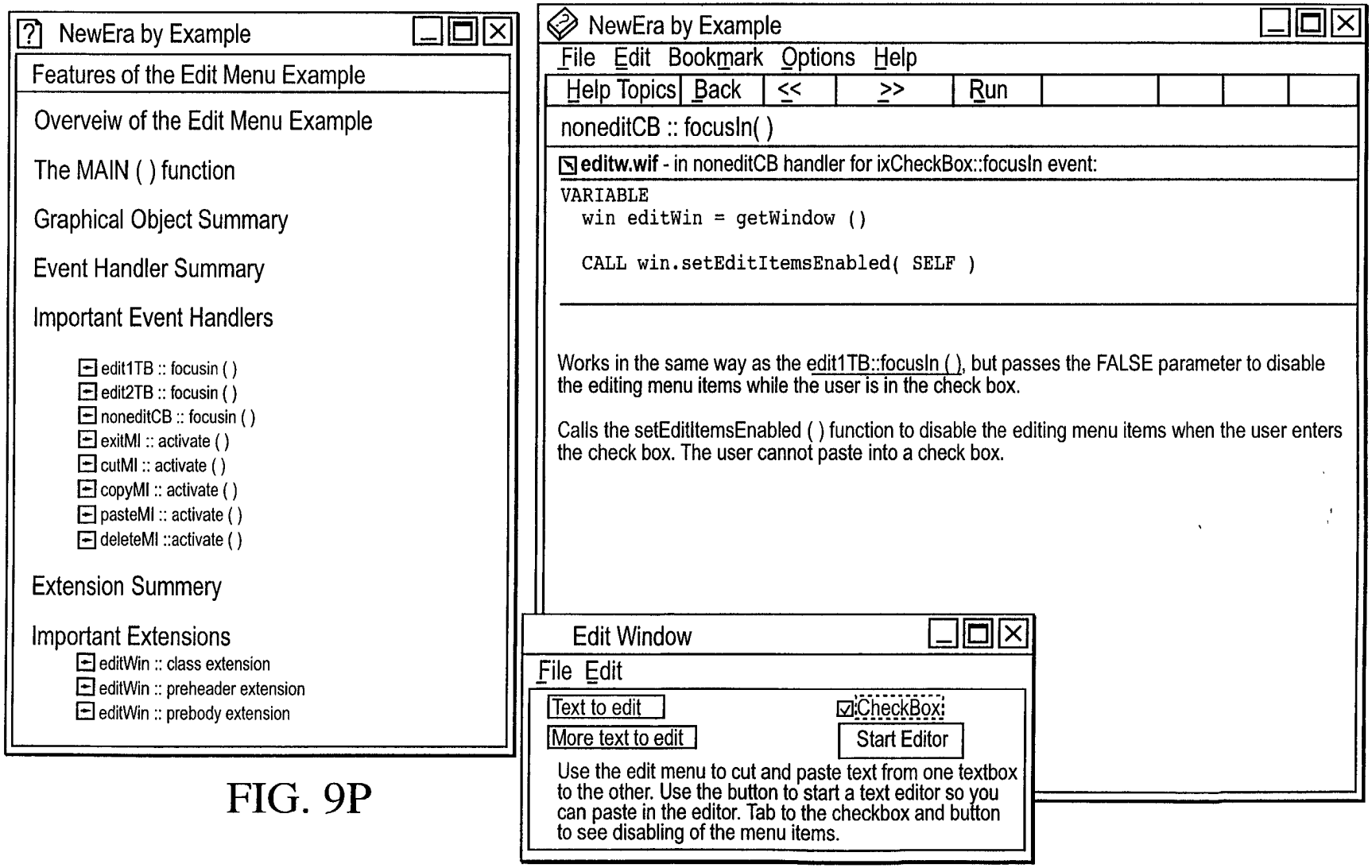

NewEra by Example
Features of the Edit Menu Example
Overveiw of the Edit Menu Example
The MAIN ( ) function
Graphical Object Summary
Event Handler Summary
Important Event Handlers
edit1TB :: focusin ( )
edit2TB :: focusin ( )
noneditCB :: focusin ( )
exitMI :: activate ( )
cutMI :: activate ( )
copyMI :: activate ( )
pasteMI :: activate ( )
deleteMI ::activate ( )
Extension Summery
Important Extensions
editWin :: class extension
editWin :: preheader extension
editWin :: prebody extension
NewEra by Example
File Edit Bookmark Options Help
Help Topics Back << >> Run
noneditCB :: focusIn( )
editw.wif - in noneditCB handler for ixCheckBox::focusIn event:
VARIABLE
win editWin = getWindow ()
CALL win.setEditItemsEnabled(SELF)
Works in the same way as the edit1TB::focusIn ( ), but passes the FALSE parameter to disable the editing menu items while the user is in the check box.
Calls the setEditItemsEnabled ( ) function to disable the editing menu items when the user enters the check box. The user cannot paste into a check box.
Edit Window
File Edit
Text to edit
CheckBox
More text to edit
Start Editor
Use the edit menu to cut and paste text from one textbox to the other. Use the button to start a text editor so you can paste in the editor. Tab to the checkbox and button to see disabling of the menu items.

FIG. 9P

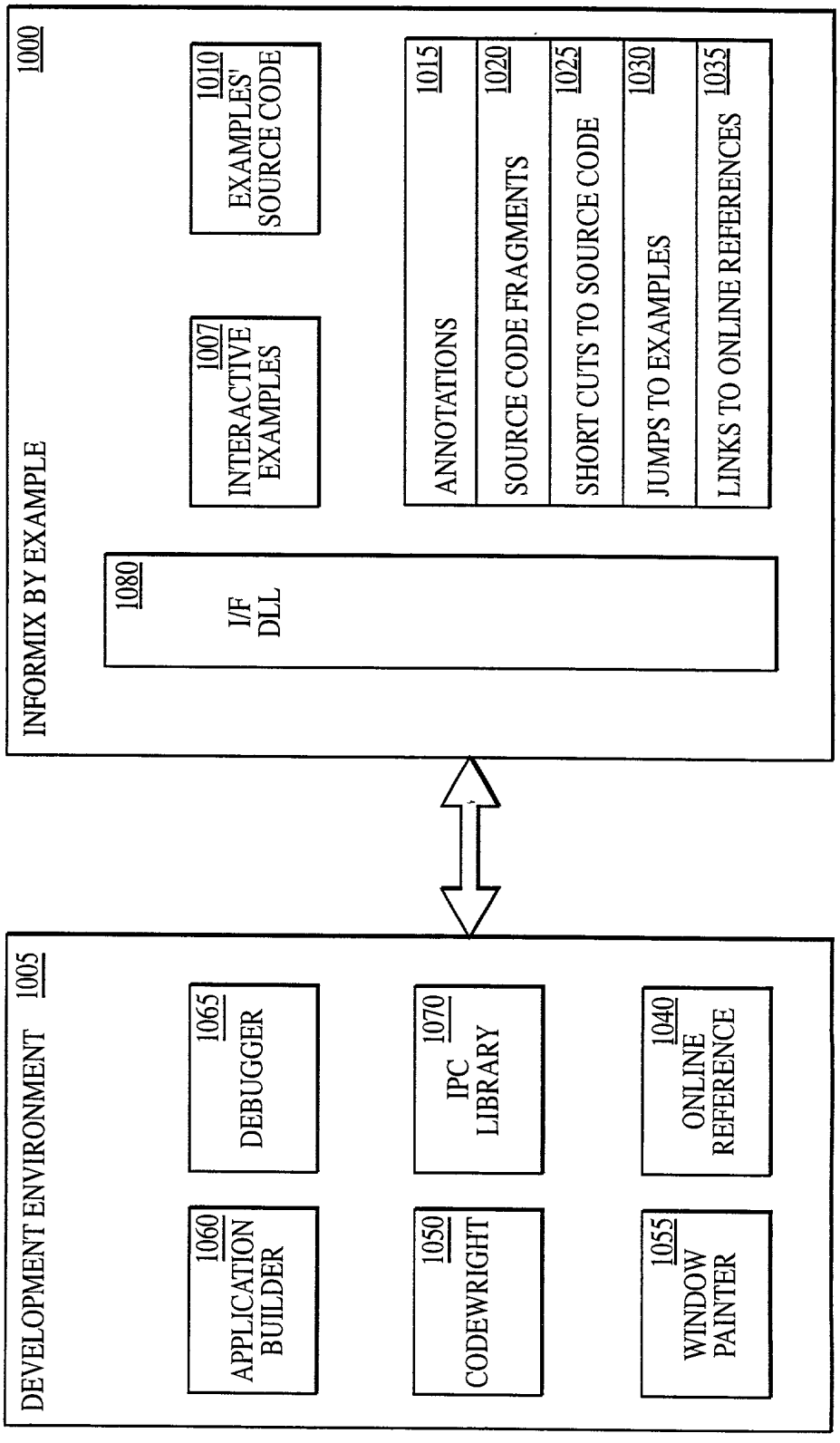

1000
INFORMIX BY EXAMPLE
1080
I/F DLL
1007
INTERACTIVE EXAMPLES
1010
EXAMPLES' SOURCE CODE
1015
ANNOTATIONS
1020
SOURCE CODE FRAGMENTS
1025
SHORT CUTS TO SOURCE CODE
1030
JUMPS TO EXAMPLES
1035
LINKS TO ONLINE REFERENCES
1005
DEVELOPMENT ENVIRONMENT
1060
APPLICATION BUILDER
1065
DEBUGGER
1050
CODEWRIGHT
1070
IPC LIBRARY
1055
WINDOW PAINTER
1040
ONLINE REFERENCE

FIG. 10

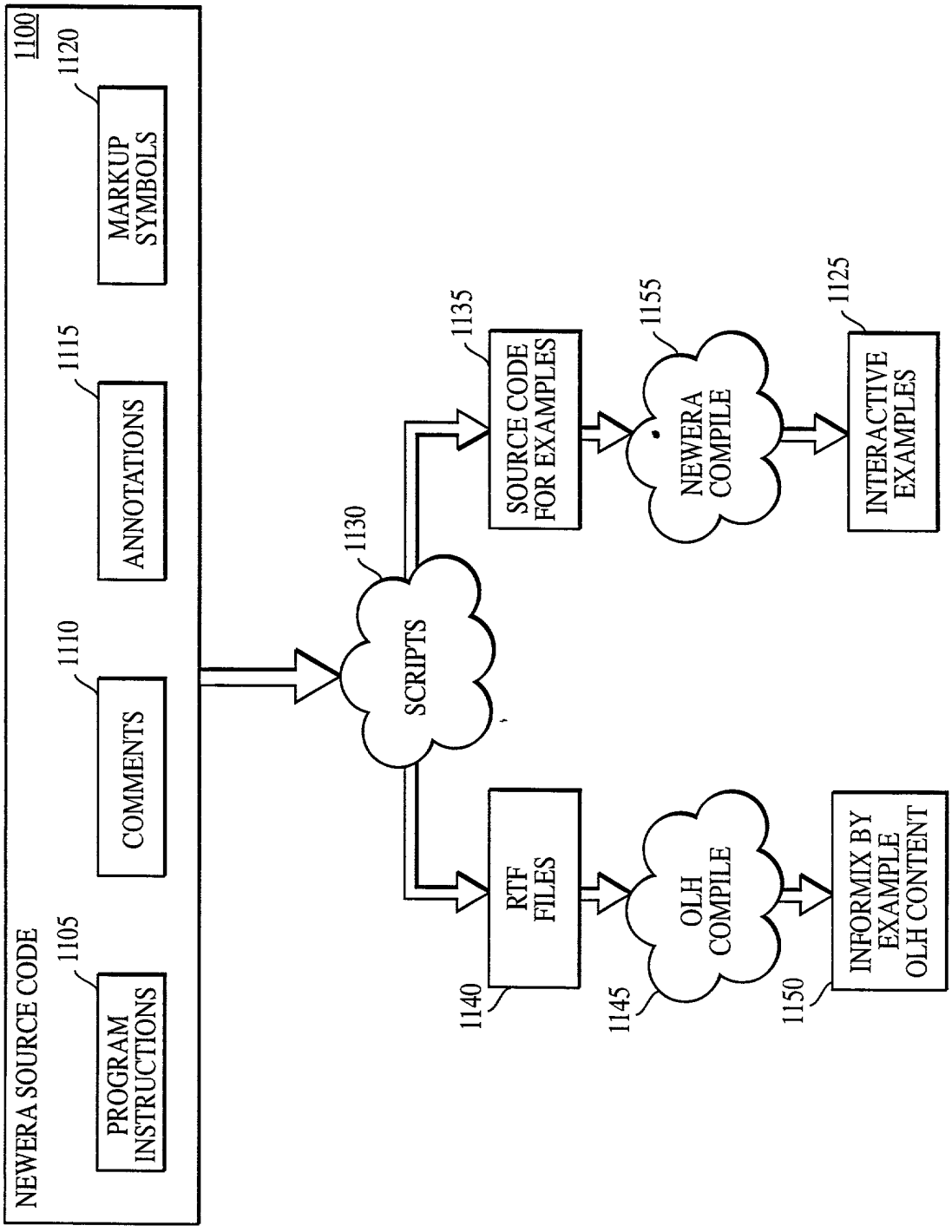

1100
NEWERA SOURCE CODE
1105
PROGRAM INSTRUCTIONS
1110
COMMENTS
1115
ANNOTATIONS
1120
MARKUP SYMBOLS
1130
SCRIPTS
1135
SOURCE CODE FOR EXAMPLES
1140
RTF FILES
1145
OLH COMPILE
1150
INFORMIX BY EXAMPLE OLH CONTENT
1155
NEWERA COMPILE
1125
INTERACTIVE EXAMPLES

FIG. 11

```
    FUNCTION driveStockRpt( destType SMALLINT, destName CHAR(*) )
1200 RETURNING VOID
    {.normal
    Since objects, in particular ixRow objects, cannot be passed
    as arguments to the report formatter, rows of fetched data will
    be unpacked into a record that matches the data types and lengths
    of elements in the fetched rows.
    }
    VARIABLE
         stockRec RECORD
              mn CHAR(15),     -- manufact.manu_name
              sn SMALLINT,     -- stock.stock_num
              sd CHAR(15),     -- stock.description
              sp MONEY(6,2),   -- stock.unit_price
              su CHAR(4)       -- stock.unit
              END RECORD

         stockStmt ixSQLStmt,
         stmtString CHAR(*),
         stockRow ixRow,

         errorCode INTEGER,
         logFile ixErrorLog
1205
    {.normal
    Use the implicit connection object to create an SQL statement
    object. The connection object must already be connected to a
    database.
    Checking the status of the prepare( ) call will confirm this.
1210 }
    {.[edit stmt}
    LET stockStmt =
    ixSQLConnect::getImplicitConnection().createStmtObject()
    {.]file stmt}
 1215
```

FIG. 12

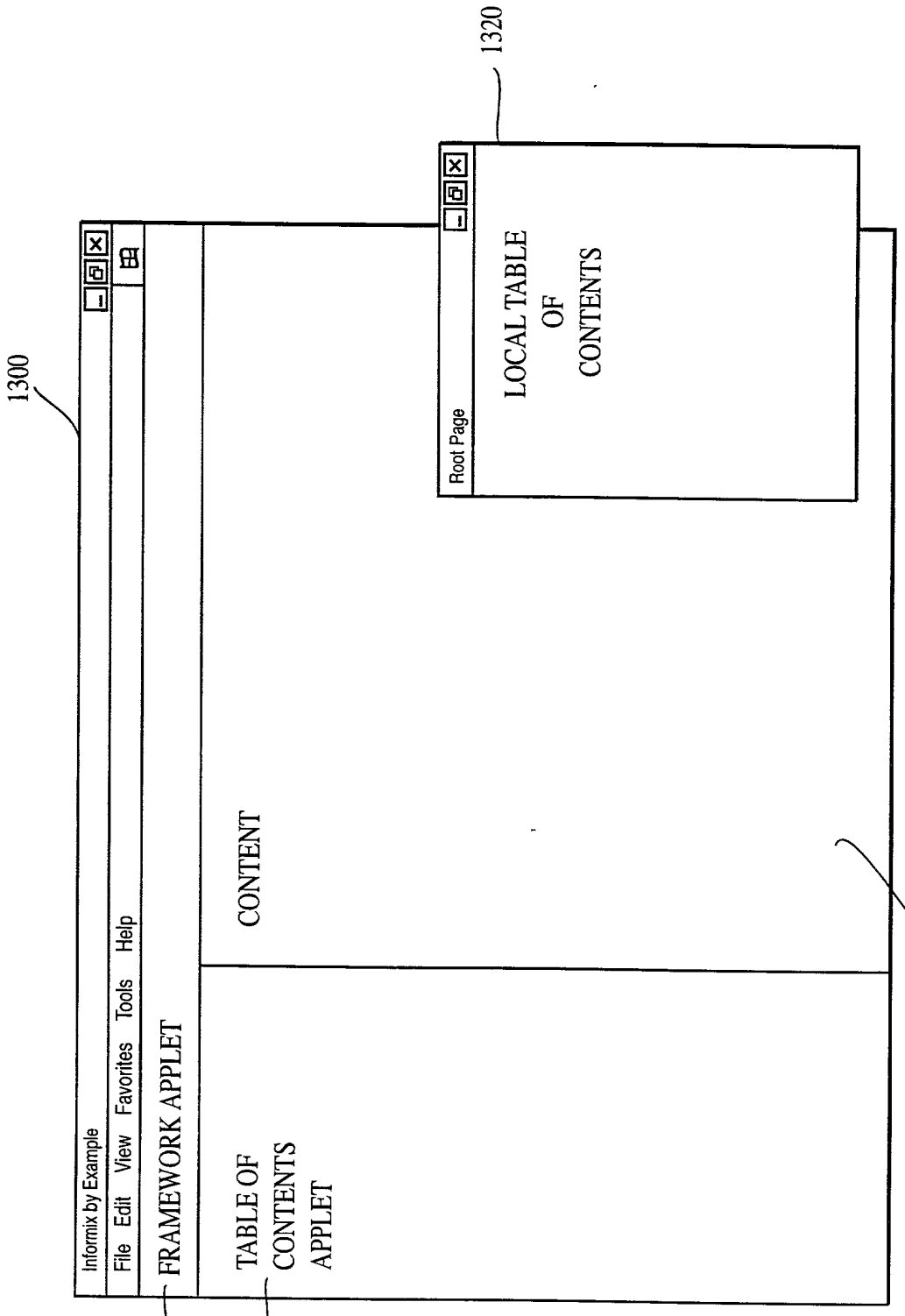
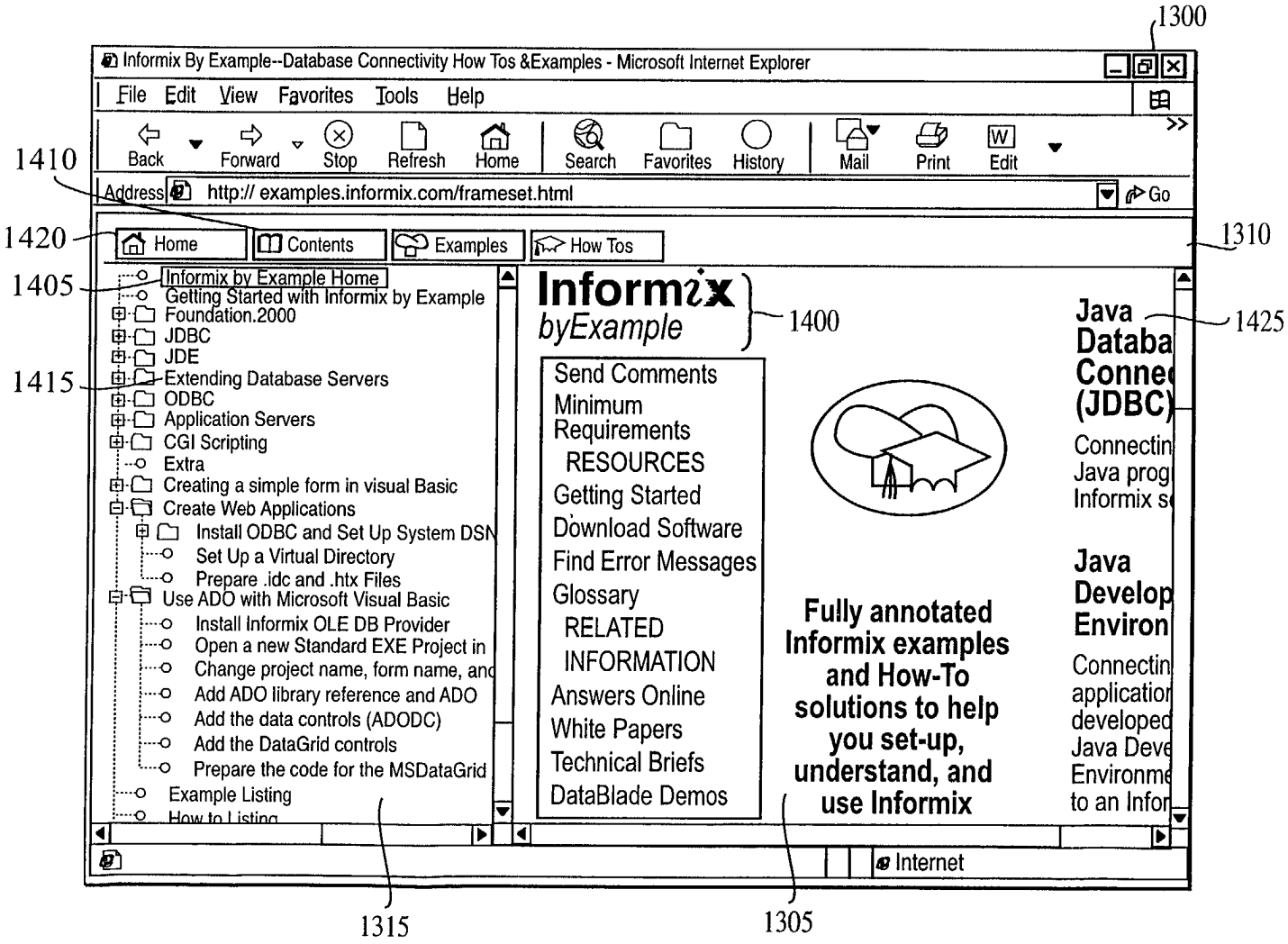

1300
Informix by Example
File Edit View Favorites Tools Help
FRAMEWORK APPLET
1310
TABLE OF CONTENTS APPLET
1315
CONTENT
1305
1320
Root Page
LOCAL TABLE OF CONTENTS

FIG. 13


1300
Informix By Example--Database Connectivity How Tos &Examples - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
1410
Address http:// examples.informix.com/frameset.html
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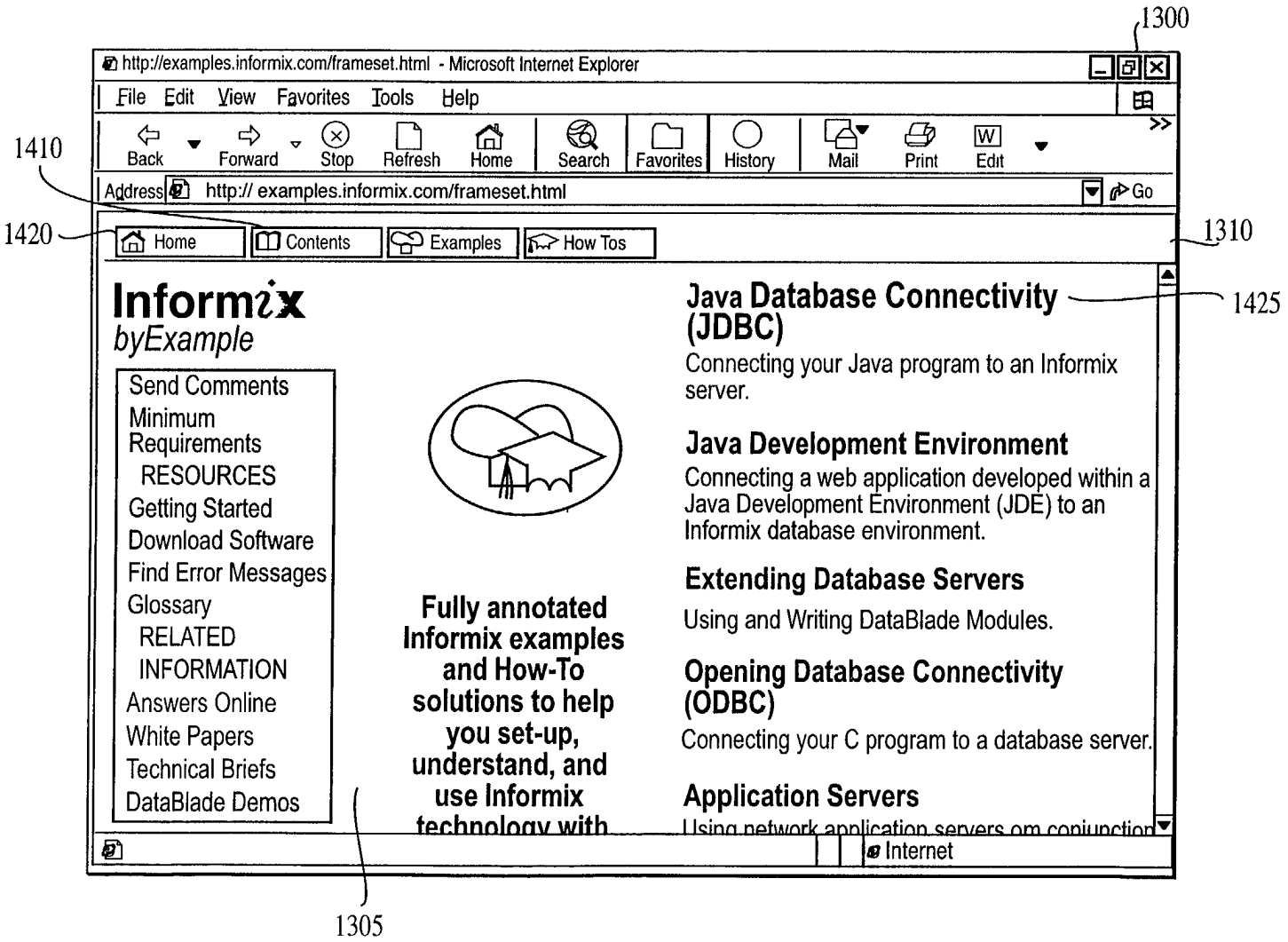
ODBC
Application Servers
CGI Scripting
Extra
Creating a simple form in visual Basic
Create Web Applications
Install ODBC and Set Up System DSN
Set Up a Virtual Directory
Prepare .idc and .htx Files
Use ADO with Microsoft Visual Basic
Install Informix OLE DB Provider
Open a new Standard EXE Project in
Change project name, form name, and
Add ADO library reference and ADO
Add the data controls (ADODC)
Add the DataGrid controls
Prepare the code for the MSDataGrid
Example Listing
How to Listing
Informix
byExample
1400
Send Comments
Minimum Requirements
RESOURCES
Getting Started
Download Software
Find Error Messages
Glossary
RELATED INFORMATION
Answers Online
White Papers
Technical Briefs
DataBlade Demos
Fully annotated Informix examples and How-To solutions to help you set-up, understand, and use Informix
1425
Java Databa Connec (JDBC)
Connectin Java prog Informix s
Java Develop Environ
Connectin applicatior developed Java Deve Environme to an Infor
Internet
1315
1305

FIG. 14A


1300
http://examples.informix.com/frameset.html - Microsoft Internet Explorer
File Edit View Favorites Tools Help
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Address http:// examples.informix.com/frameset.html
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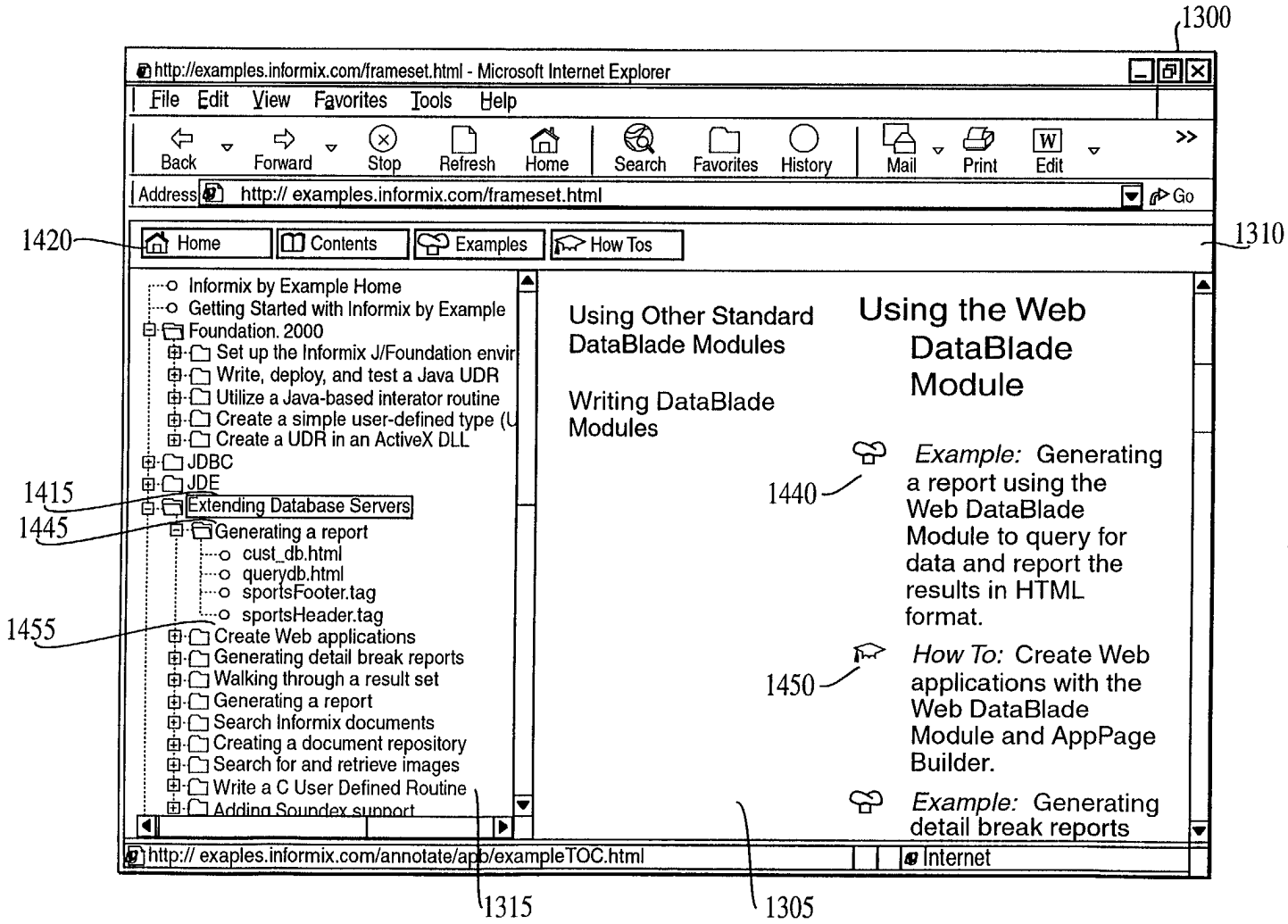
Send Comments
Minimum Requirements
RESOURCES
Getting Started
Download Software
Find Error Messages
Glossary
RELATED INFORMATION
Answers Online
White Papers
Technical Briefs
DataBlade Demos
Fully annotated Informix examples and How-To solutions to help you set-up, understand, and use Informix technology with
Java Database Connectivity (JDBC)
1425
Connecting your Java program to an Informix server.
Java Development Environment
Connecting a web application developed within a Java Development Environment (JDE) to an Informix database environment.
Extending Database Servers
Using and Writing DataBlade Modules.
Opening Database Connectivity (ODBC)
Connecting your C program to a database server.
Application Servers
Internet
1305

FIG. 14B


1300
http://examples.informix.com/frameset.html - Microsoft Internet Explorer
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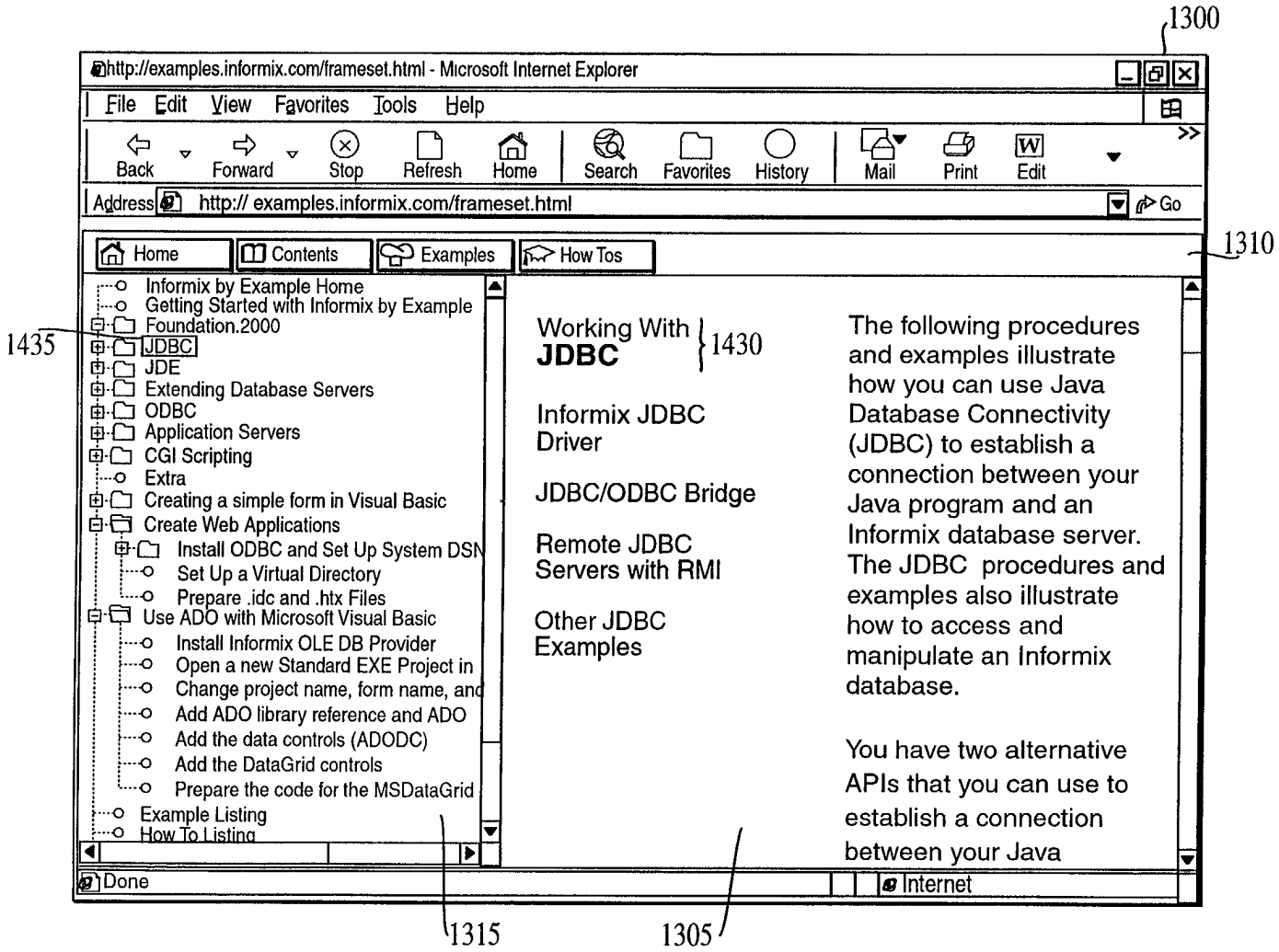
Getting Started with Informix by Example
Foundation. 2000
Set up the Informix J/Foundation envir
Write, deploy, and test a Java UDR
Utilize a Java-based interator routine
Create a simple user-defined type (U
Create a UDR in an ActiveX DLL
JDBC
JDE
1415
Extending Database Servers
1445
Generating a report
cust_db.html
querydb.html
sportsFooter.tag
sportsHeader.tag
1455
Create Web applications
Generating detail break reports
Walking through a result set
Generating a report
Search Informix documents
Creating a document repository
Search for and retrieve images
Write a C User Defined Routine
Adding Soundex support
Using Other Standard DataBlade Modules
Writing DataBlade Modules
Using the Web DataBlade Module
1440
Example: Generating a report using the Web DataBlade Module to query for data and report the results in HTML format.
1450
How To: Create Web applications with the Web DataBlade Module and AppPage Builder.
Example: Generating detail break reports
http:// exaples.informix.com/annotate/apb/exampleTOC.html
Internet
1315
1305

FIG. 14C


1300
http://examples.informix.com/frameset.html - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
Address http:// examples.informix.com/frameset.html
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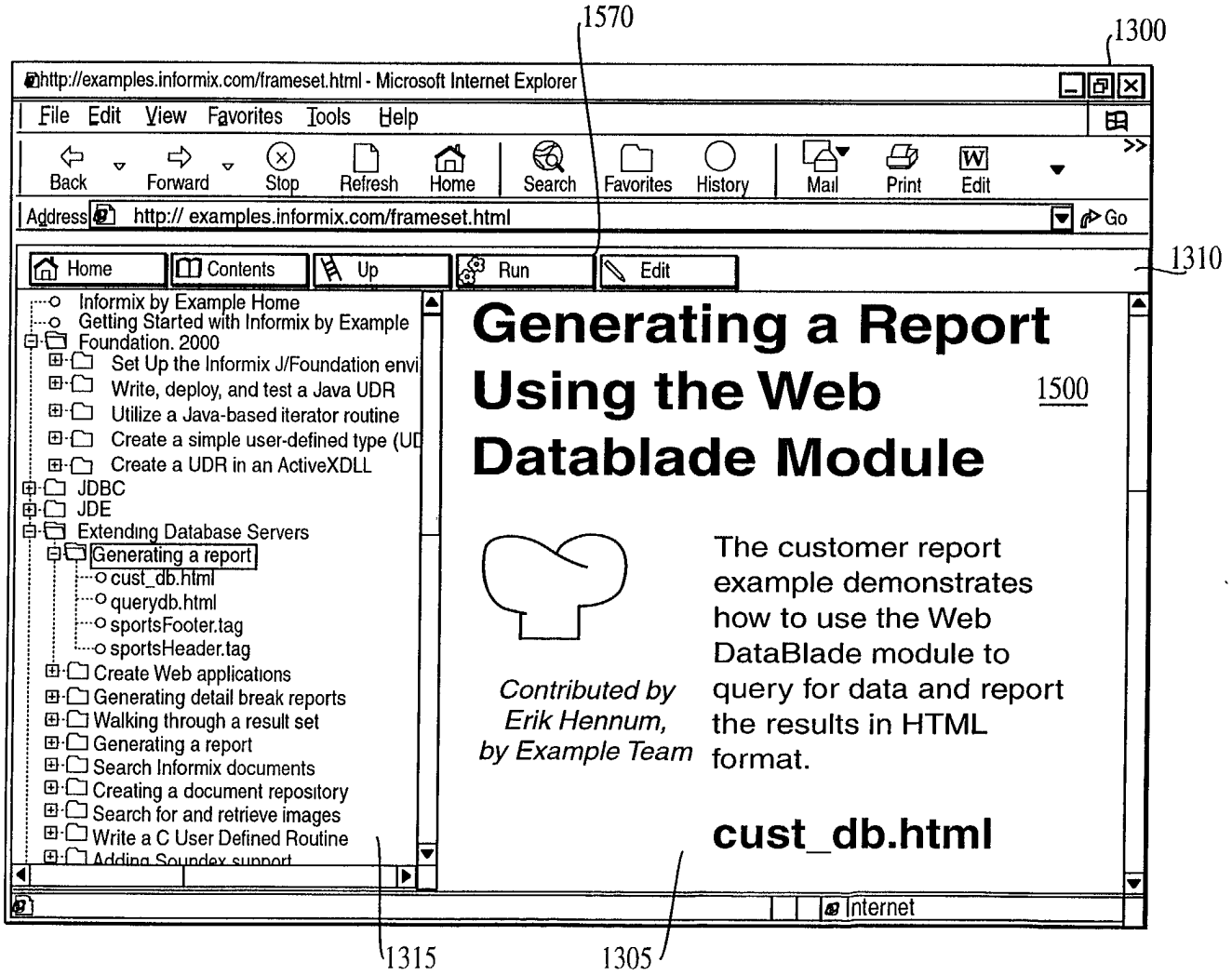
Create Web Applications
Install ODBC and Set Up System DSN
Set Up a Virtual Directory
Prepare .idc and .htx Files
Use ADO with Microsoft Visual Basic
Install Informix OLE DB Provider
Open a new Standard EXE Project in
Change project name, form name, and
Add ADO library reference and ADO
Add the data controls (ADODC)
Add the DataGrid controls
Prepare the code for the MSDataGrid
Example Listing
How To Listing
Working With JDBC
1430
Informix JDBC Driver
JDBC/ODBC Bridge
Remote JDBC Servers with RMI
Other JDBC Examples
The following procedures and examples illustrate how you can use Java Database Connectivity (JDBC) to establish a connection between your Java program and an Informix database server. The JDBC procedures and examples also illustrate how to access and manipulate an Informix database.
You have two alternative APIs that you can use to establish a connection between your Java
Done
Internet
1315
1305

FIG. 14D


1570
1300
http://examples.informix.com/frameset.html - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
Address http:// examples.informix.com/frameset.html
Go
Home Contents Up Run Edit
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Foundation. 2000
Set Up the Informix J/Foundation envi
Write, deploy, and test a Java UDR
Utilize a Java-based iterator routine
Create a simple user-defined type (UD
Create a UDR in an ActiveXDLL
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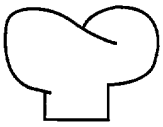
cust_db.html
querydb.html
sportsFooter.tag
sportsHeader.tag
Create Web applications
Generating detail break reports
Walking through a result set
Generating a report
Search Informix documents
Creating a document repository
Search for and retrieve images
Write a C User Defined Routine
Adding Soundex support
Generating a Report Using the Web Datablade Module
1500
Contributed by Erik Hennum, by Example Team
The customer report example demonstrates how to use the Web DataBlade module to query for data and report the results in HTML format.
cust_db.html
Internet
1315
1305

FIG. 15A

1500

Generating a Report Using the Web Datablade Module



Contributed by Erik Hennum, byExample Team

The customer report example demonstrates how to use the Web DataBlade module to query for data and report the results in HTML format. —1505

cust_db.html —1510

1505

This app page accepts a query and generates an HTML report

1510 { querydb.html —1510

1505

This HTML page contains a form that invokes an app page

sportsFooter.tag —1510

1505

The sportsFooter dynamic tag generates the footer for an app page.

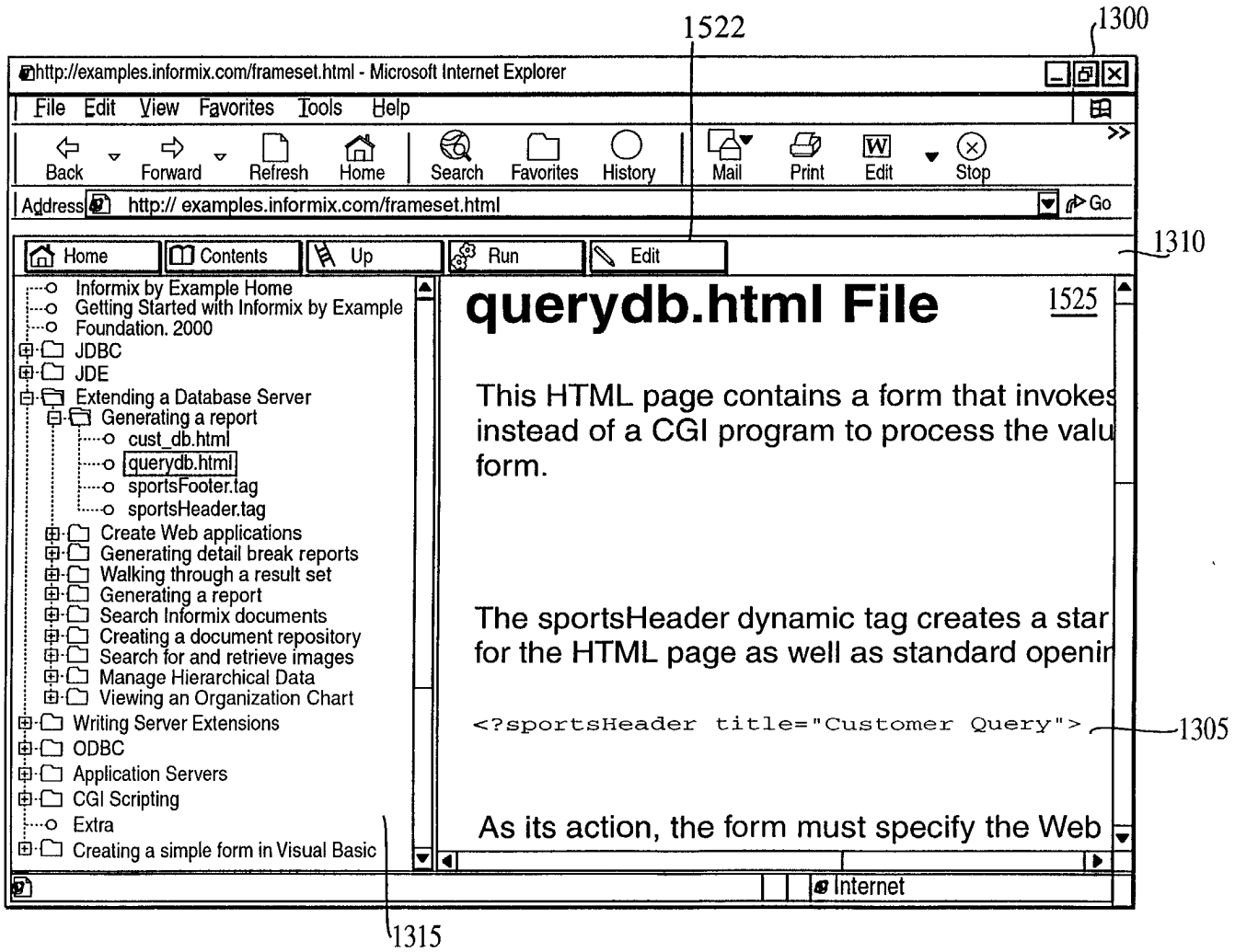
sportsHeader.tag —1510

1505

The sportsHeader dynamic tag generates the header for an app page.

Click here to view or print all of the source files for this example.

FIG. 15B


1522
1300
http://examples.informix.com/frameset.html - Microsoft Internet Explorer
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Address http:// examples.informix.com/frameset.html
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querydb.html
sportsFooter.tag
sportsHeader.tag
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Generating detail break reports
Walking through a result set
Generating a report
Search Informix documents
Creating a document repository
Search for and retrieve images
Manage Hierarchical Data
Viewing an Organization Chart
Writing Server Extensions
ODBC
Application Servers
CGI Scripting
Extra
Creating a simple form in Visual Basic
1315
querydb.html File
1525
This HTML page contains a form that invokes
instead of a CGI program to process the valu
form.
The sportsHeader dynamic tag creates a star
for the HTML page as well as standard openir
<?sportsHeader title="Customer Query">
1305
As its action, the form must specify the Web
Internet

FIG. 15C

1525

querydb.html File

This HTML page contains a form that invokes an app page instead of a CGI program to process the values in the form.

The sportsHeader dynamic tag creates a standard header for the HTML page as well as standard opening text.

1535

```
<?sportsHeader title="Customer Query">
```

1530

1540

As its action, the form must specify the Web Driver utility.

```
<P>
<FORM ACTION ="<?MIVAR>$WEB_HOME<?/MIVAR"METHOD="GET">
```

1530

1550

To specify the app page, the form must use a hidden input component. The input component must have a name of **MIval** and a value that's the name of the app page. The input component below specifies the cust_db.html app page.

1535

```
<INPUT TYPE="HIDDEN" NAME="MIval" VALUE="/examples/CustRpt/cust_db.html">

Optional state:
<INPUT TYPE="TEXT" NAME="SelectState" SIZE="3" MAXLENGTH="2">
<INPUT TYPE="SUBMIT" NAME="SUBMIT" VALUE="SUBMIT">

</FORM>
</P>


</BODY>
</HTML>
```

1530

FIG. 15D

querydb.html

1560

```
<!--<ibyx>
<intro>
<p><abstract>This HTML page contains a form that invokes
an app page</abstract> instead of a CGI program to process
the values in the form.
</p>
</intro>
</ibyx> -- >

<!-- <ibyx>
<p> The sportsHeader dynamic tag creates a standard header
for the HTML page as well as standard opening text.
</p>
</ibyx> -->
<?sportsHeader title="Customer Query">

<!-- <ibyx>
<p> As its action, the form must specify the Web Driver utility.
</p>
</ibyx>-->
<P>
<FORM ACTION="<?MIVAR>$WEB_HOME<?/MIVAR>" METHOD="GET">

<!-- <ibyx>
<p> To specify the app page, the form must use a hidden input component.
The input component must have a name of <strong>MIval</strong> and
a value that's the name of the app page. The input component below
specifies the <a href="cust_db.html">cust_db.html</a> app page.
</p>
</ibyx> -->
<INPUT TYPE="HIDDEN" NAME="MIval" VALUE="/examples/CustRpt/cust_db.html">

Optional state:
<INPUT TYPE="TEXT" NAME="selectState" SIZE="3" MAXLENGTH="2">
<INPUT TYPE="SUBMIT" NAME="Submit" VALUE="Submit">

</FORM>
</P>

<?annotate>

</BODY>
</HTML>
```

1535

1535

FIG. 15E

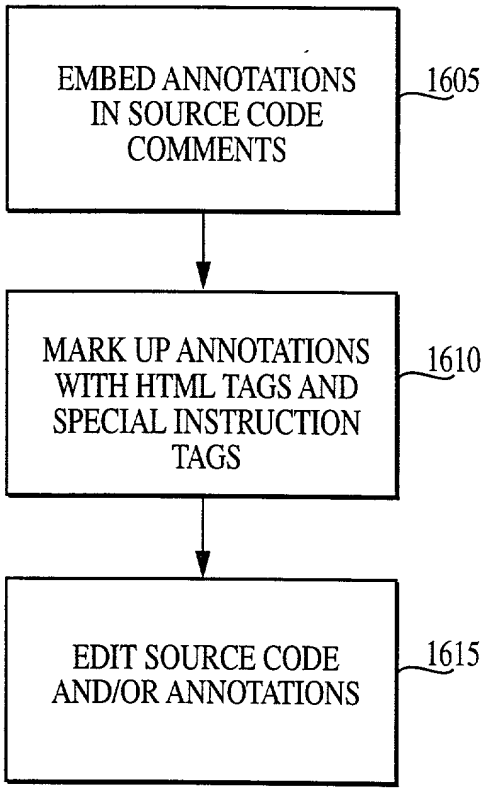

EMBED ANNOTATIONS IN SOURCE CODE COMMENTS
1605
MARK UP ANNOTATIONS WITH HTML TAGS AND SPECIAL INSTRUCTION TAGS
1610
EDIT SOURCE CODE AND/OR ANNOTATIONS
1615

FIG. 16A

1620

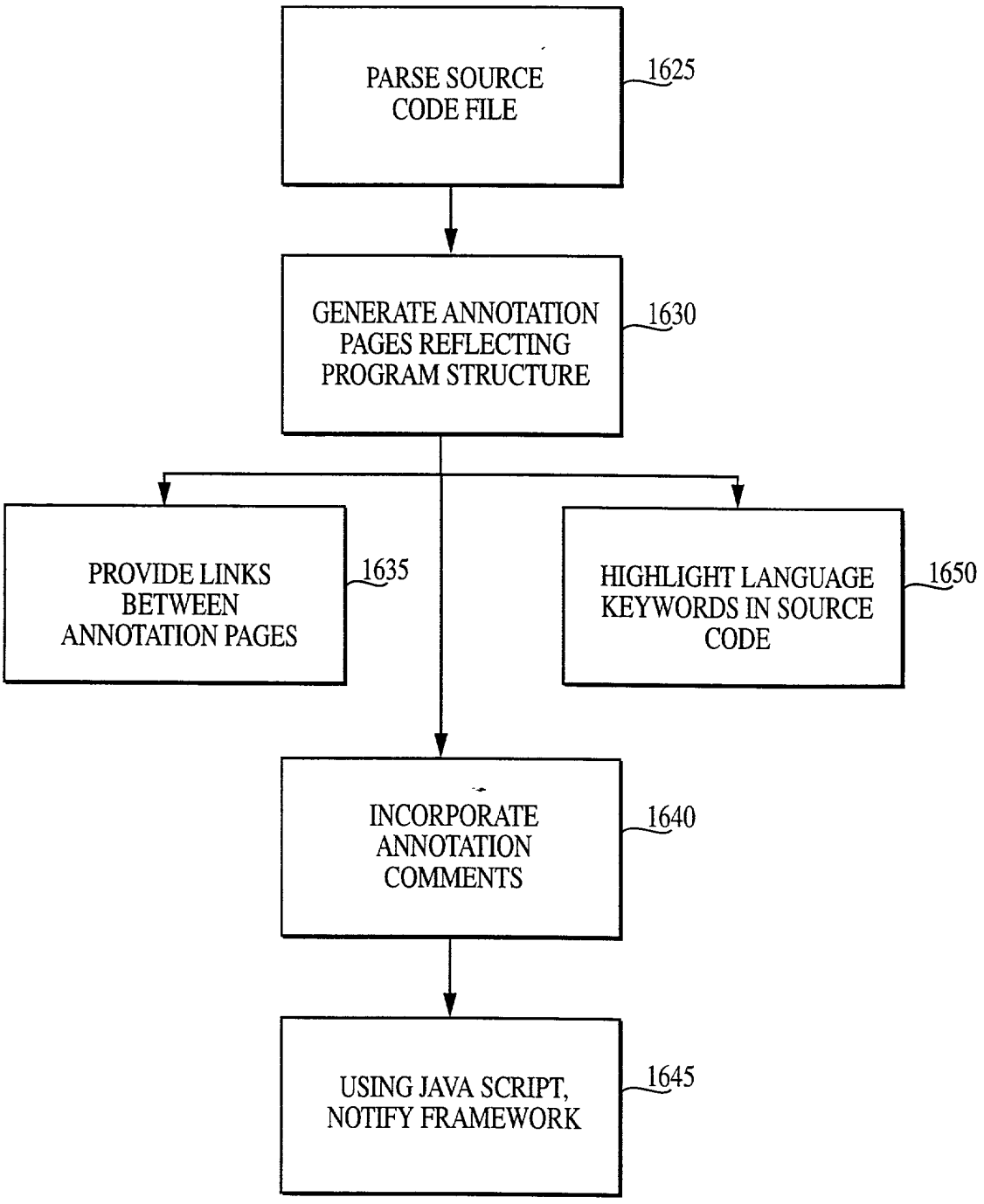

PARSE SOURCE CODE FILE
1625
GENERATE ANNOTATION PAGES REFLECTING PROGRAM STRUCTURE
1630
PROVIDE LINKS BETWEEN ANNOTATION PAGES
1635
HIGHLIGHT LANGUAGE KEYWORDS IN SOURCE CODE
1650
INCORPORATE ANNOTATION COMMENTS
1640
USING JAVA SCRIPT, NOTIFY FRAMEWORK
1645

FIG. 16B

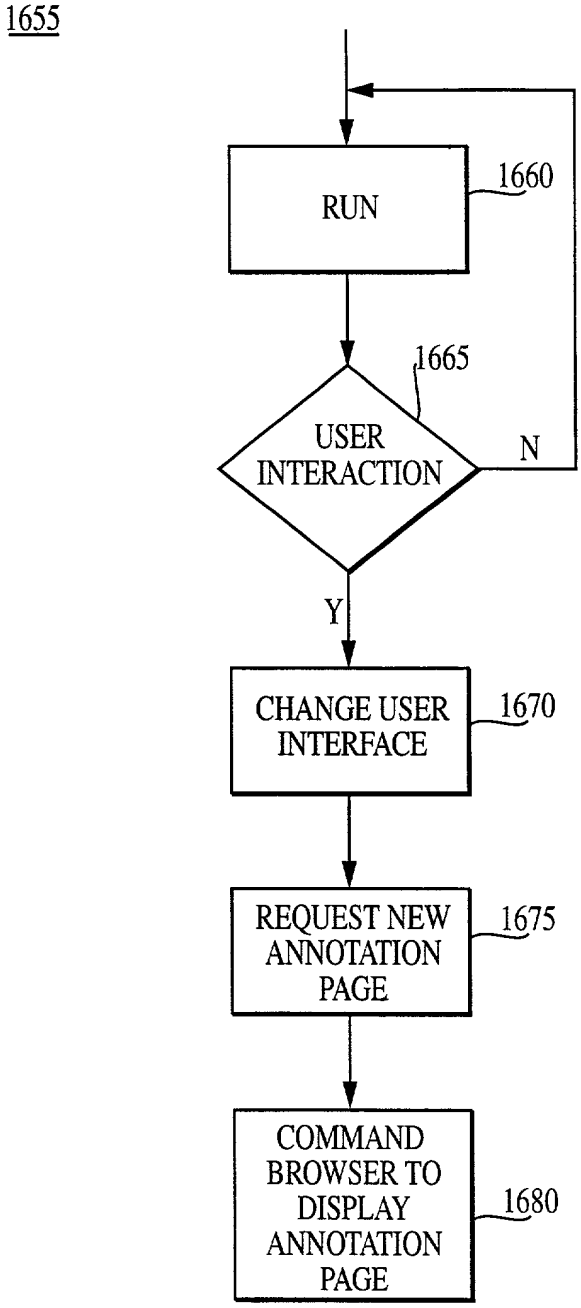
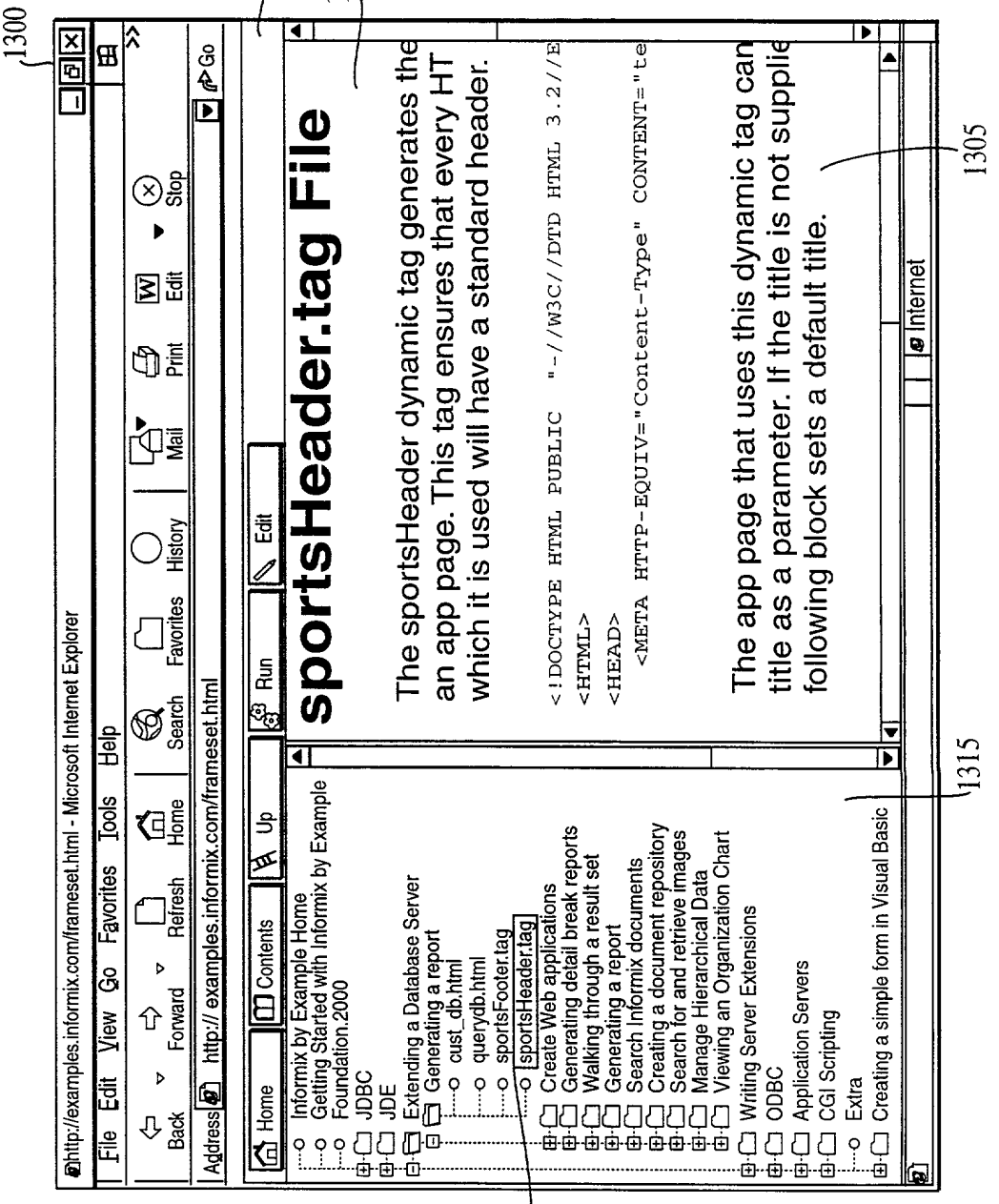

1655
RUN
1660
1665
USER INTERACTION
N
Y
CHANGE USER INTERFACE
1670
REQUEST NEW ANNOTATION PAGE
1675
COMMAND BROWSER TO DISPLAY ANNOTATION PAGE
1680

FIG. 16C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1315
http://examples.informix.com/frameset.html - Microsoft Internet Explorer
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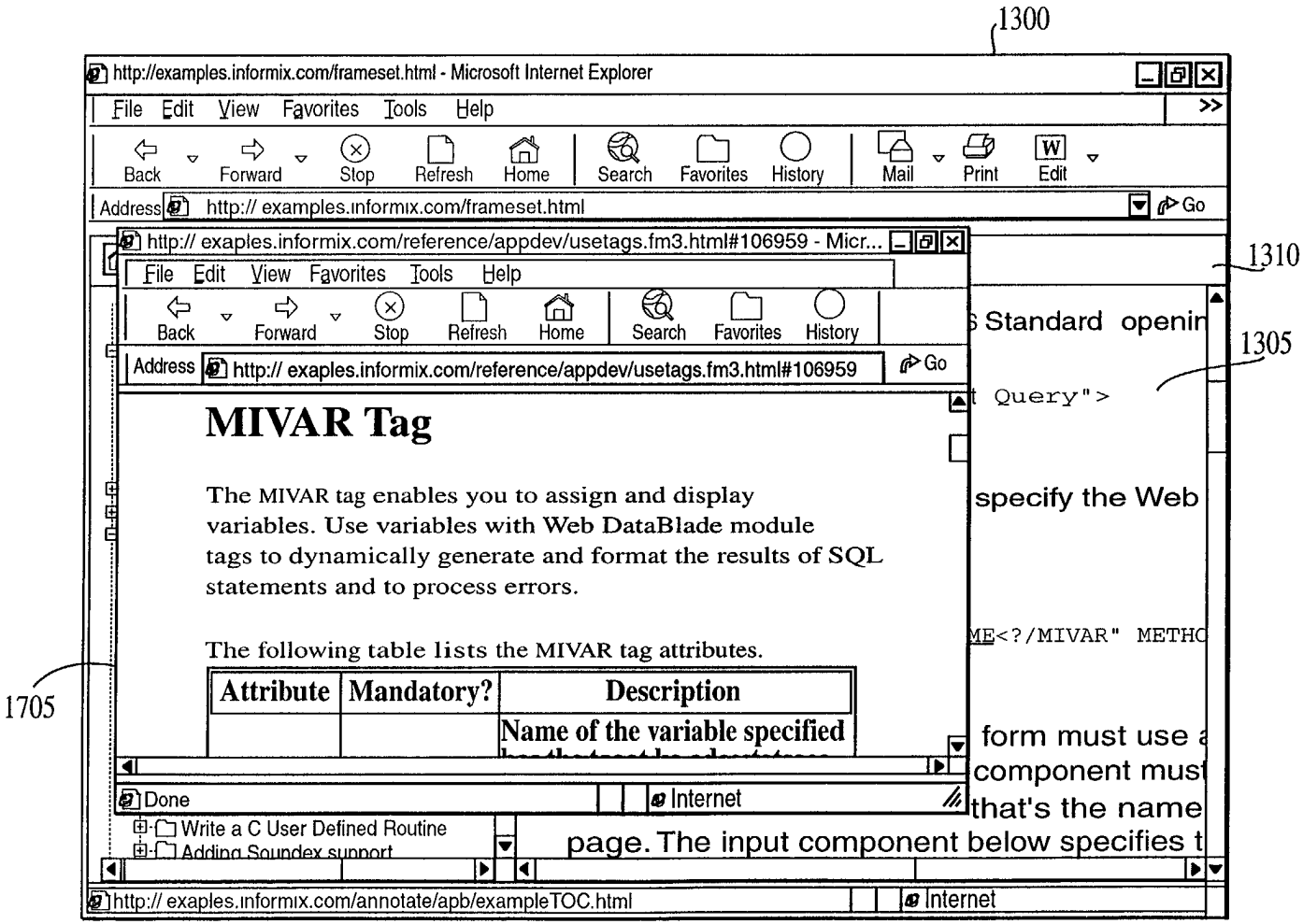
Extra
Creating a simple form in Visual Basic
sportsHeader.tag File
The sportsHeader dynamic tag generates the
an app page. This tag ensures that every HT
which it is used will have a standard header.
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//E
<HTML>
<HEAD>
<META HTTP-EQUIV="Content-Type" CONTENT="te
The app page that uses this dynamic tag can
title as a parameter. If the title is not supplie
following block sets a default title.
Internet

FIG. 17A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http://examples.informix.com/frameset.html - Microsoft Internet Explorer
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Address http:// exaples.informix.com/reference/appdev/usetags.fm3.html#106959
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1705
MIVAR Tag
The MIVAR tag enables you to assign and display variables. Use variables with Web DataBlade module tags to dynamically generate and format the results of SQL statements and to process errors.
The following table lists the MIVAR tag attributes.
Attribute
Mandatory?
Description
Name of the variable specified
Done
Internet
Write a C User Defined Routine
Adding Soundex support
http:// exaples.informix.com/annotate/apb/exampleTOC.html
Internet
Standard openin
Query">
specify the Web
ME<?/MIVAR" METHO
form must use a
component must
that's the name
page. The input component below specifies t

FIG. 17B

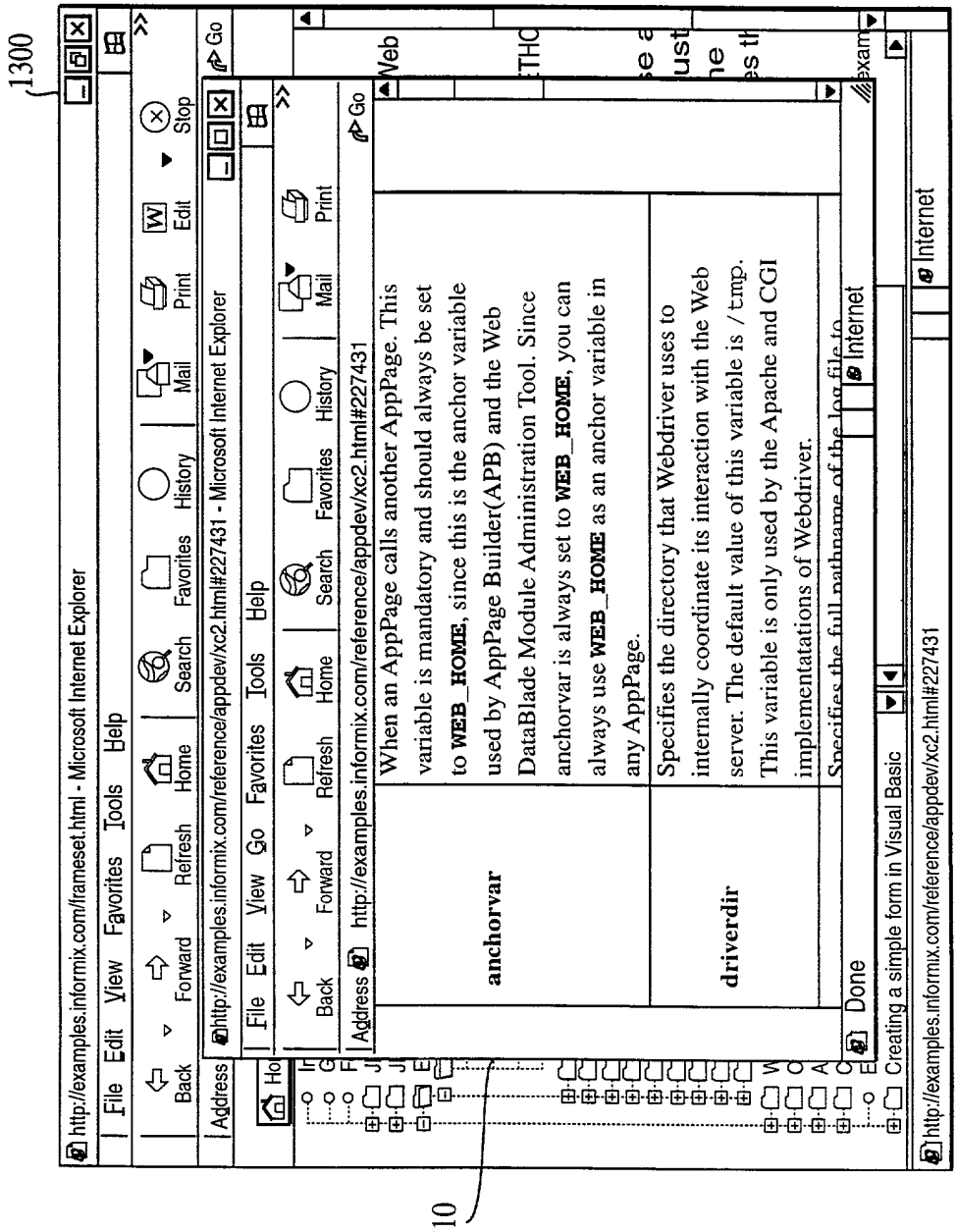
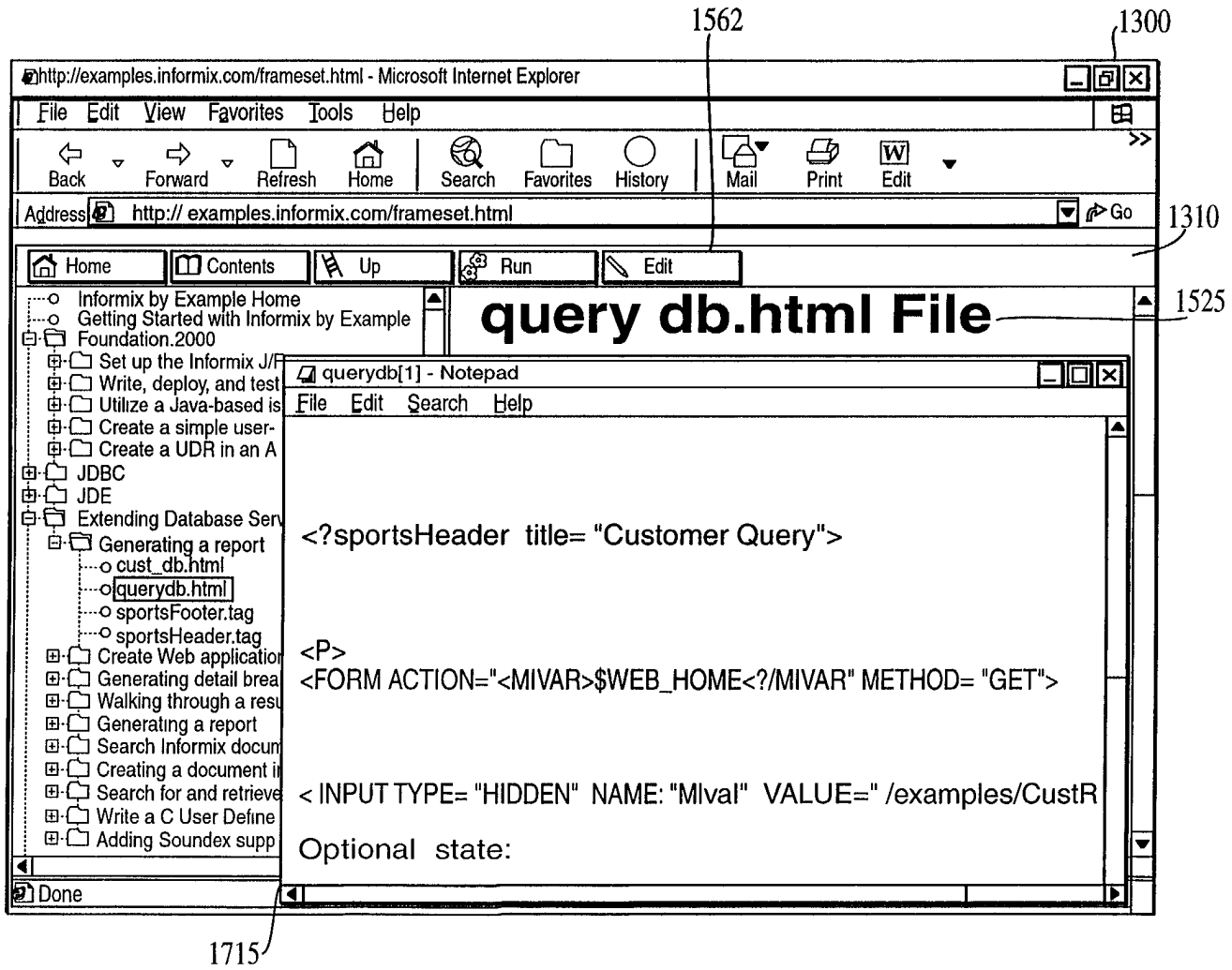

1300
1710
anchorvar
When an AppPage calls another AppPage. This variable is mandatory and should always be set to WEB_HOME, since this is the anchor variable used by AppPage Builder(APB) and the Web DataBlade Module Administration Tool. Since anchorvar is always set to WEB_HOME, you can always use WEB_HOME as an anchor variable in any AppPage.
driverdir
Specifies the directory that Webdriver uses to internally coordinate its interaction with the Web server. The default value of this variable is /tmp. This variable is only used by the Apache and CGI implementations of Webdriver.
Done
Internet
Creating a simple form in Visual Basic

FIG. 17C


1562
1300
http://examples.informix.com/frameset.html - Microsoft Internet Explorer
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Write a C User Define
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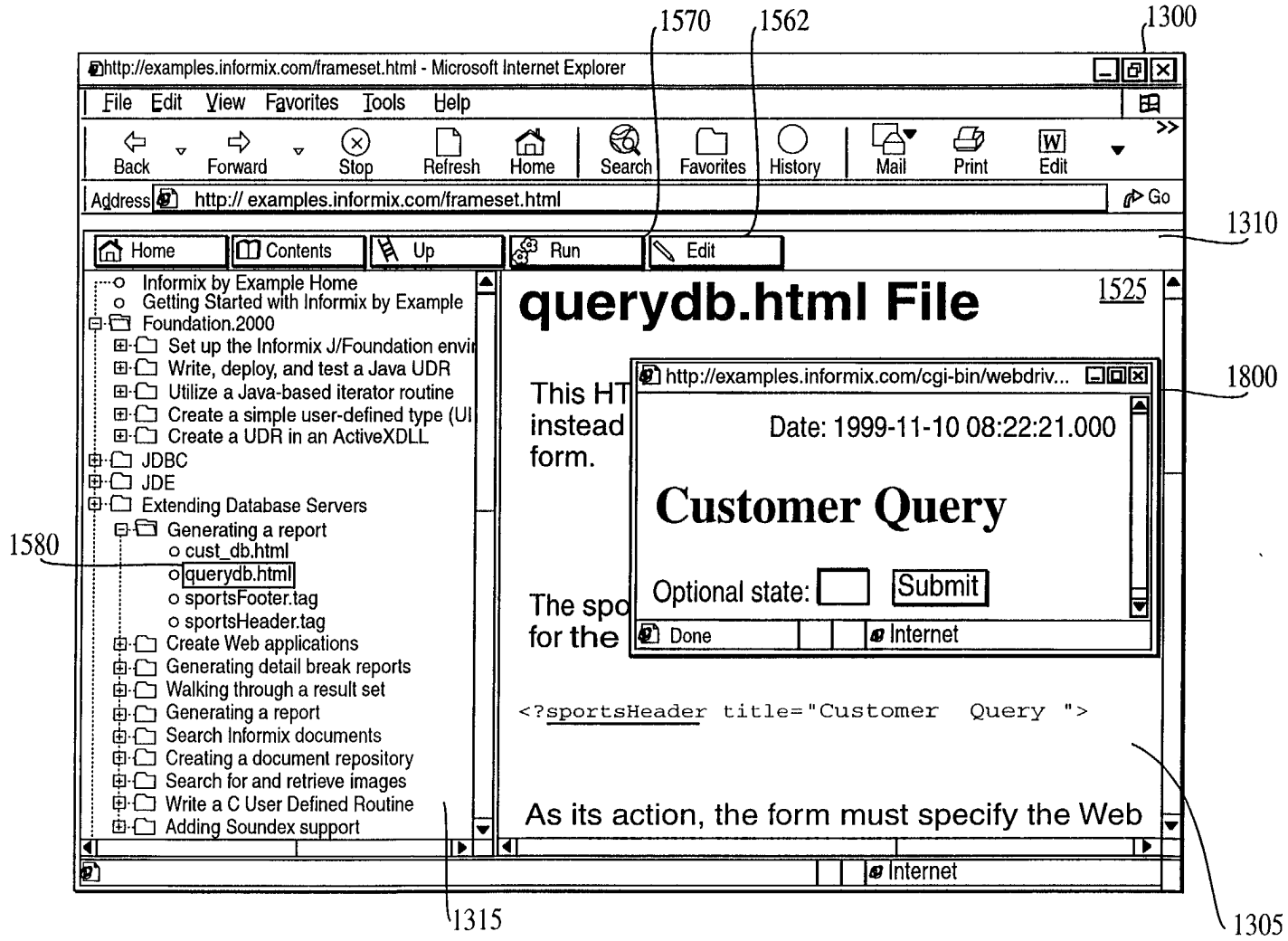
query db.html File
1525
querydb[1] - Notepad
File Edit Search Help
<?sportsHeader title= "Customer Query">
<P>
<FORM ACTION="<MIVAR>$WEB_HOME<?/MIVAR" METHOD= "GET">
< INPUT TYPE= "HIDDEN" NAME: "MIval" VALUE=" /examples/CustR
Optional state:
Done
1715

FIG. 17D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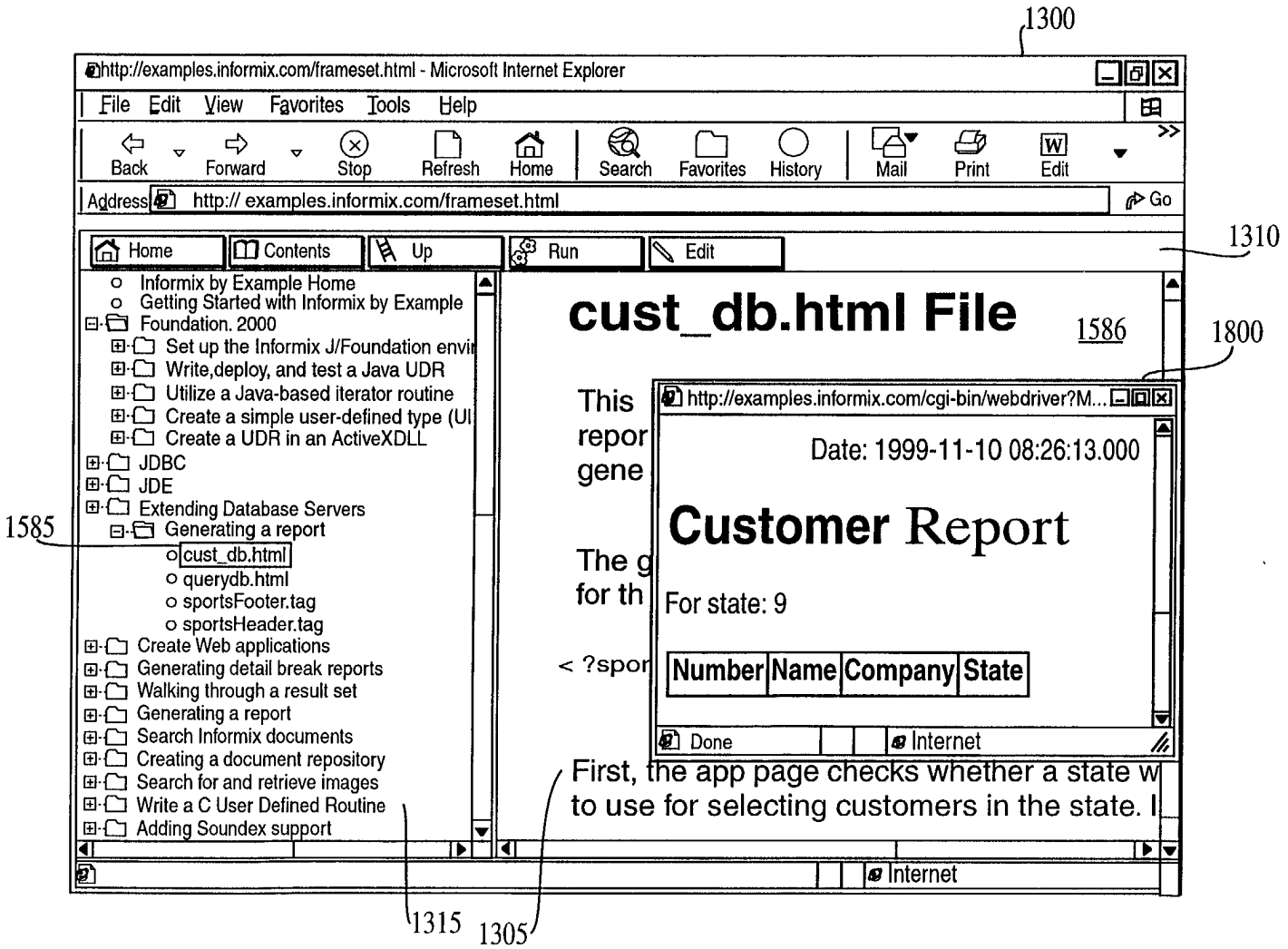
1580
querydb.html File
1525
This HT
instead
form.
http://examples.informix.com/cgi-bin/webdriv...
1800
Date: 1999-11-10 08:22:21.000
Customer Query
Optional state:
Submit
The spo
for the
Done
Internet
<?sportsHeader title="Customer Query ">
As its action, the form must specify the Web
Internet
1315
1305

FIG. 18A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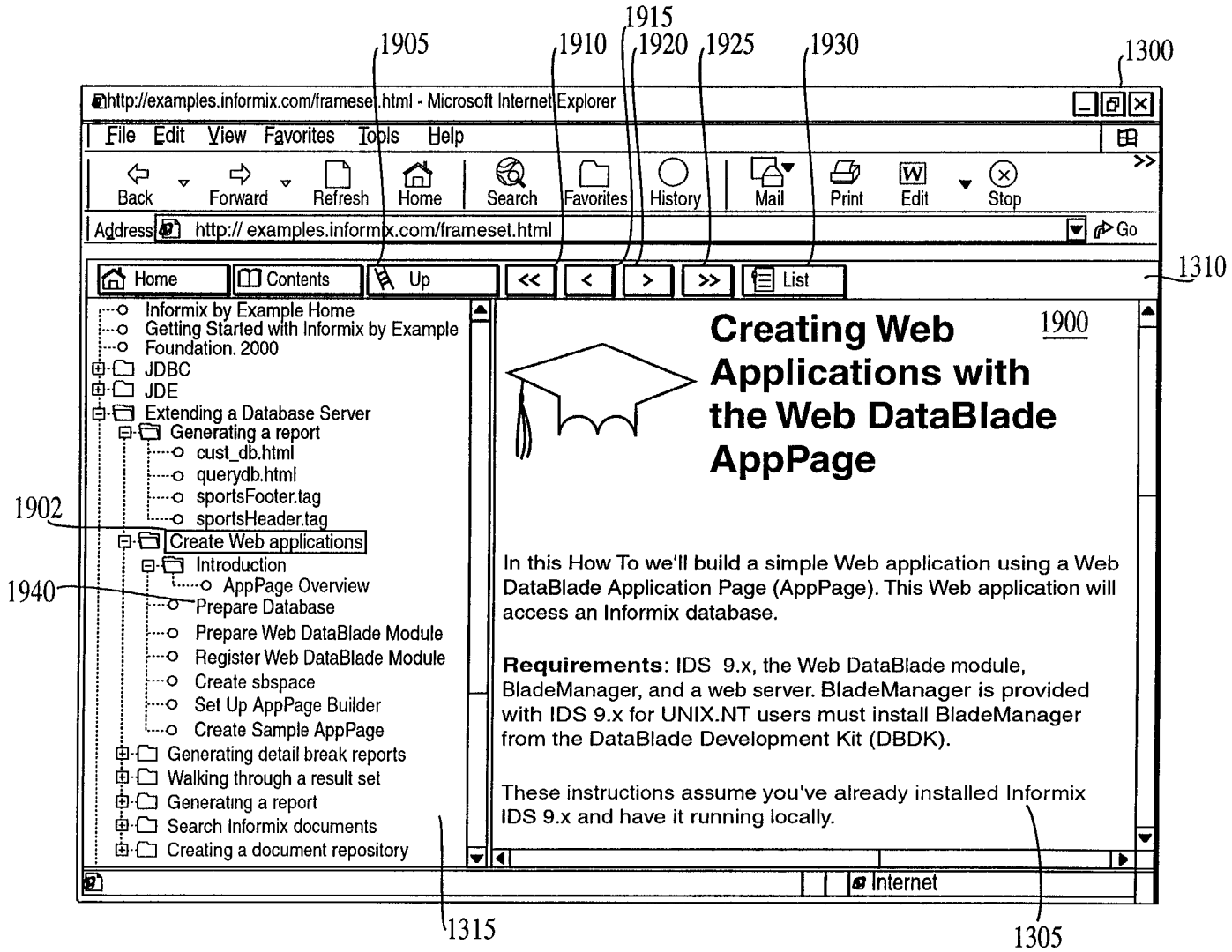
1586
1800
This
repor
gene
The g
for th
< ?spor
http://examples.informix.com/cgi-bin/webdriver?M...
Date: 1999-11-10 08:26:13.000
Customer Report
For state: 9
Number Name Company State
Done
Internet
First, the app page checks whether a state w
to use for selecting customers in the state. I
Internet
1315
1305

FIG. 18B

```
<! - - <ibyx>
<intro>
<p> <abstract>This app page accepts a query and generates an HTML
report</abstract > in response.
The app page uses dynamic tags to generate the header and footer for the
HTML report.
</p>
</intro>
</ibyx> - - >
<! - - <ibyx>
<p> The sportsHeader dynamic tag creates a standard header
for the HTML page as well as standard opening text.
</p>
</ibyx> - ->
<?sportsHeader title="Customer Report">

<! - - <ibyx>
<p> First, the app page checks whether a state was specified to use for
selecting customers in the state. If so, the block generates a
paragraph to identify the state.
</p>
</ibyx> - - >
<?MIVAR NAME=$WHERE_STR><?/MIVAR>
<?MIBLOCK COND="$(AND,$(XST,$selectState) ,  $ (<,0,$ (STRLEN, $selectState)))">
        <?MIVAR NAME= $WHERE_STR>WHERE state= " $selectState"<?/MIVAR>
        <?MIVAR><P>For state: $selectState</P><?/MIVAR>
<?/MIBLOCK>

<! - - <ibyx>
<p>Next,  the app page starts the table that will contain the data.
</p>
</ibyx> - ->
        <P><TABLE BORDER="1">
                <TR>
                <TH>Number</TH><TH>Name</TH><TH>Company</TH><TH>State</TH>
                </TR>

<! - - <ibyx>
<p> The MISQL block queries for customers, optionally selecting only customers
from the specified state. Because the contents of the block are generated
for every row of data, a new table row describes each customer.

The &amp ;nbsp; HTML entity is a non-breaking space. By putting a non-breaking
space in each column, we force the Web Browser to display the column even
if the value is null.
</p>
</ibyx> - ->
<?MISQL SQL= "SELECT customer_num, fname, lname, company, state FROM customer $WHERE_STR; ">
                <TR>
                <TD> $1  </TD><TD>$2  $3</TD><TD>$4 </TD><TD>$5 ,</TD>
                </TR>
<?/MISQL>

        </TABLE></P>

< ! - -  <ibyx>
<p> The sportsFooter dynamic tag creates a standard footer
for the HTML page.
</p>
</ibyx> - ->
<?sportsFooter>
```

1810

FIG. 18C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Creating Web Applications with the Web DataBlade AppPage
In this How To we'll build a simple Web application using a Web DataBlade Application Page (AppPage). This Web application will access an Informix database.
Requirements: IDS 9.x, the Web DataBlade module, BladeManager, and a web server. BladeManager is provided with IDS 9.x for UNIX.NT users must install BladeManager from the DataBlade Development Kit (DBDK).
These instructions assume you've already installed Informix IDS 9.x and have it running locally.
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1305

FIG. 19A

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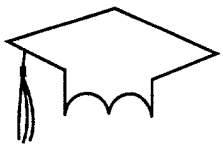

Creating Web Applications with the Web DataBlade AppPage

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In this How To we'll build a simple Web application using Web DataBlade Application Page (AppPage). This Web application will access an Informix database.

Requirements: IDS 9.x, the Web DataBlade module, BladeManager, and a web server. BladeManager is provided with IDS 9.x for UNIX. NT users must install BladeManager from the DataBlade Development Kit (DBDK)

These instructions assume you've already installed Informix IDS 9.x and have it running locally.

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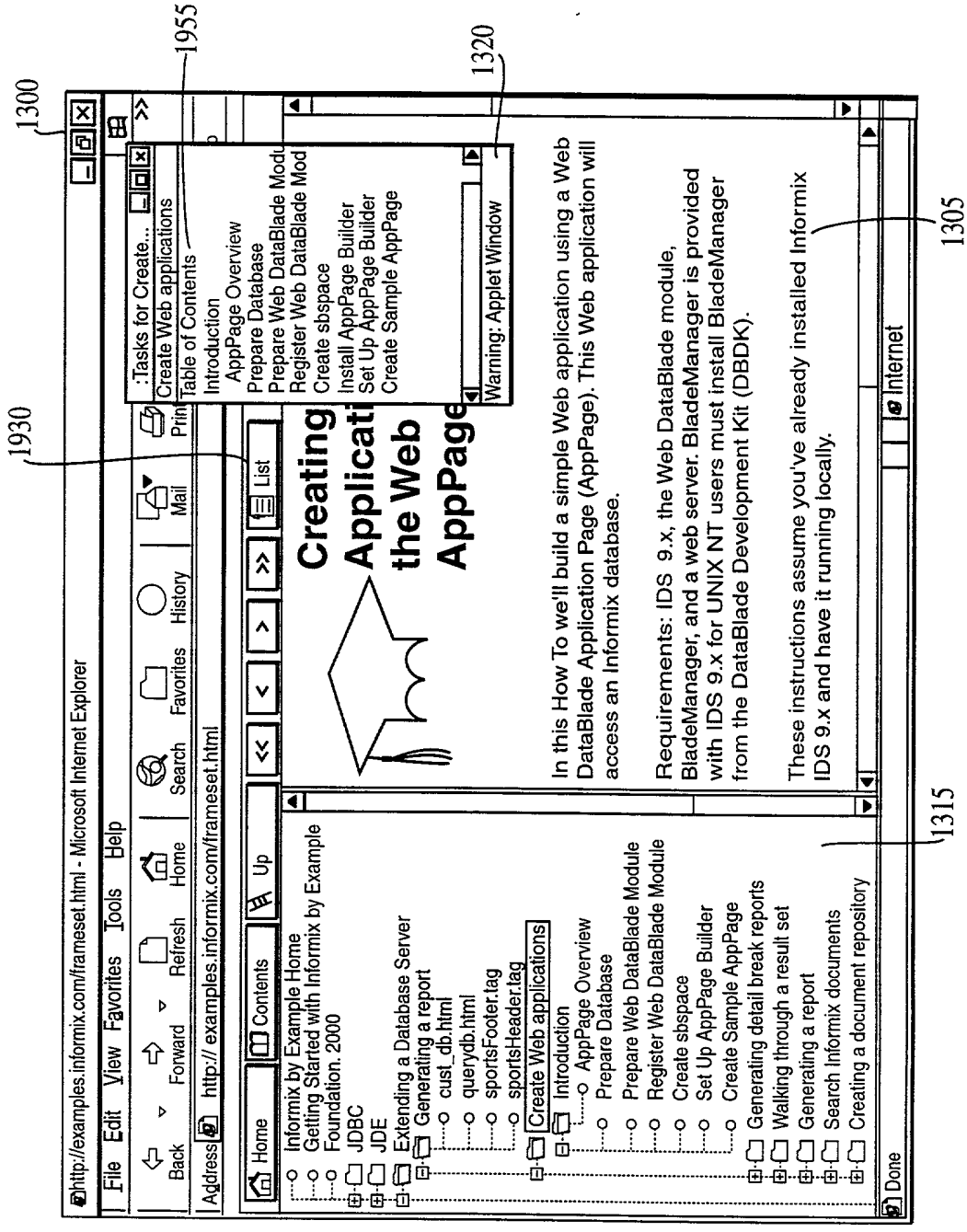
1. Define a server connection and prepare a sample database.
   Define a server connection with setnet32 (NT). Create a sample database or use the stores7 demo database.
   ▷ Prepare Database.
2. Prepare the Web DataBlade development environment.
   Install the Web DataBlade module and BladeManager.
   ▷ Prepare Web DataBlade Development Environment.
3. Register the Web DataBlade module in the demo database with BladeManager.
   ▷ Register the Web DataBlade.
4. Create a sbspace for smart large objects, like gifs.
   ▷ Create Smart Blob Space (sbspace).
5. Install AppPage Builder in your database.
   ▷ Install AppPage Builder in Your Database.
6. Setup AppPage Builder on your web server.
   ▷ Setup AppPage Builder on Your Web Server.
7. Create a sample AppPage.
   ▷ Create Sample AppPage.
8. Run the sample application.
   Enter the URL `http:// your_server/scripts/webdriver.exe`.

This How To has been compiled into two separate files for ease of printing. The basic file contains all of the steps you need to Create Web Applications with AppPage Builder. The secondary file contains additional detailed instructions for setting and testing database environment properties.

FIG. 19B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These instructions assume you've already installed Informix IDS 9.x and have it running locally.
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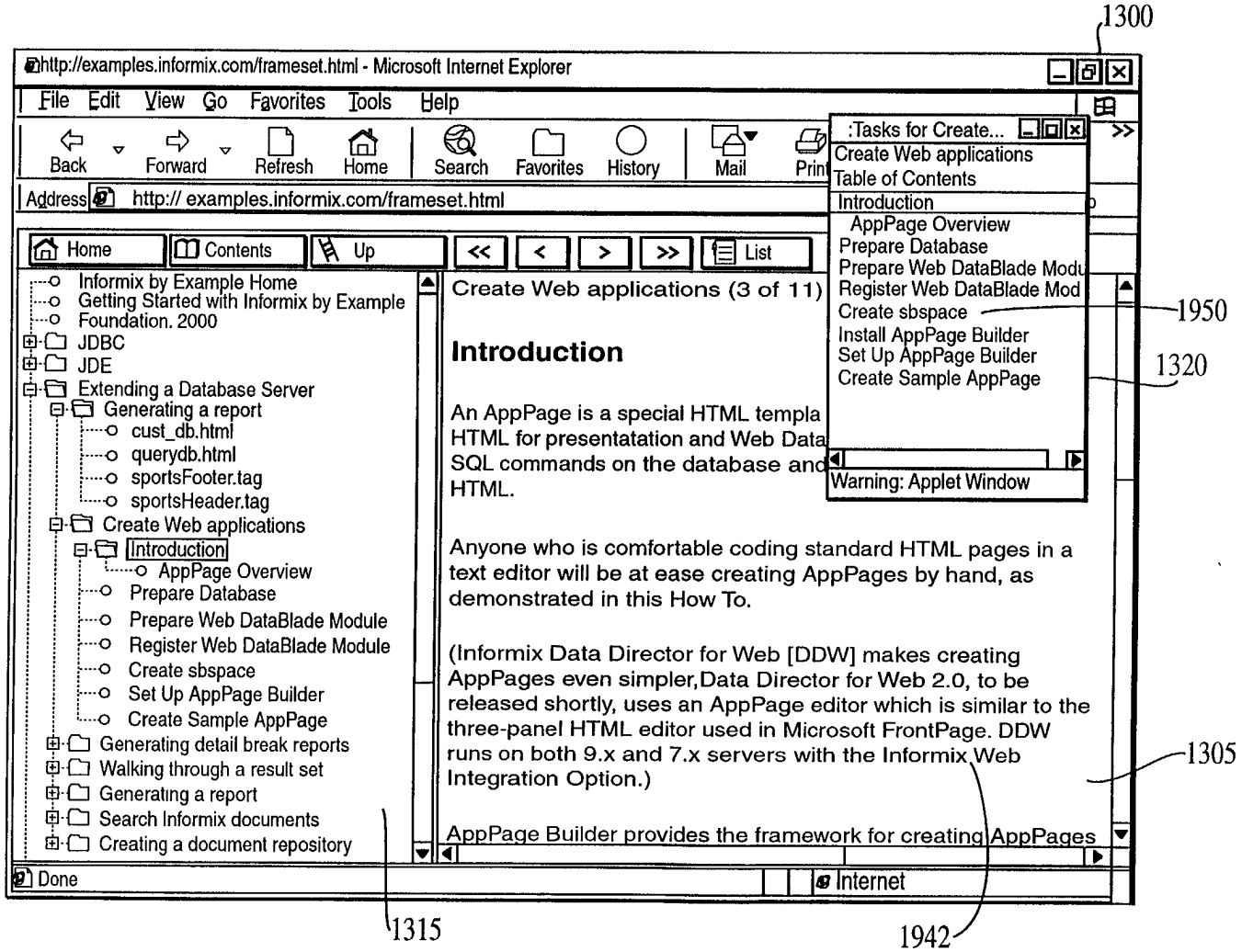
FIG. 19C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An AppPage is a special HTML templa
HTML for presentatation and Web Data
SQL commands on the database and
HTML.
Anyone who is comfortable coding standard HTML pages in a text editor will be at ease creating AppPages by hand, as demonstrated in this How To.
(Informix Data Director for Web [DDW] makes creating AppPages even simpler,Data Director for Web 2.0, to be released shortly, uses an AppPage editor which is similar to the three-panel HTML editor used in Microsoft FrontPage. DDW runs on both 9.x and 7.x servers with the Informix Web Integration Option.)
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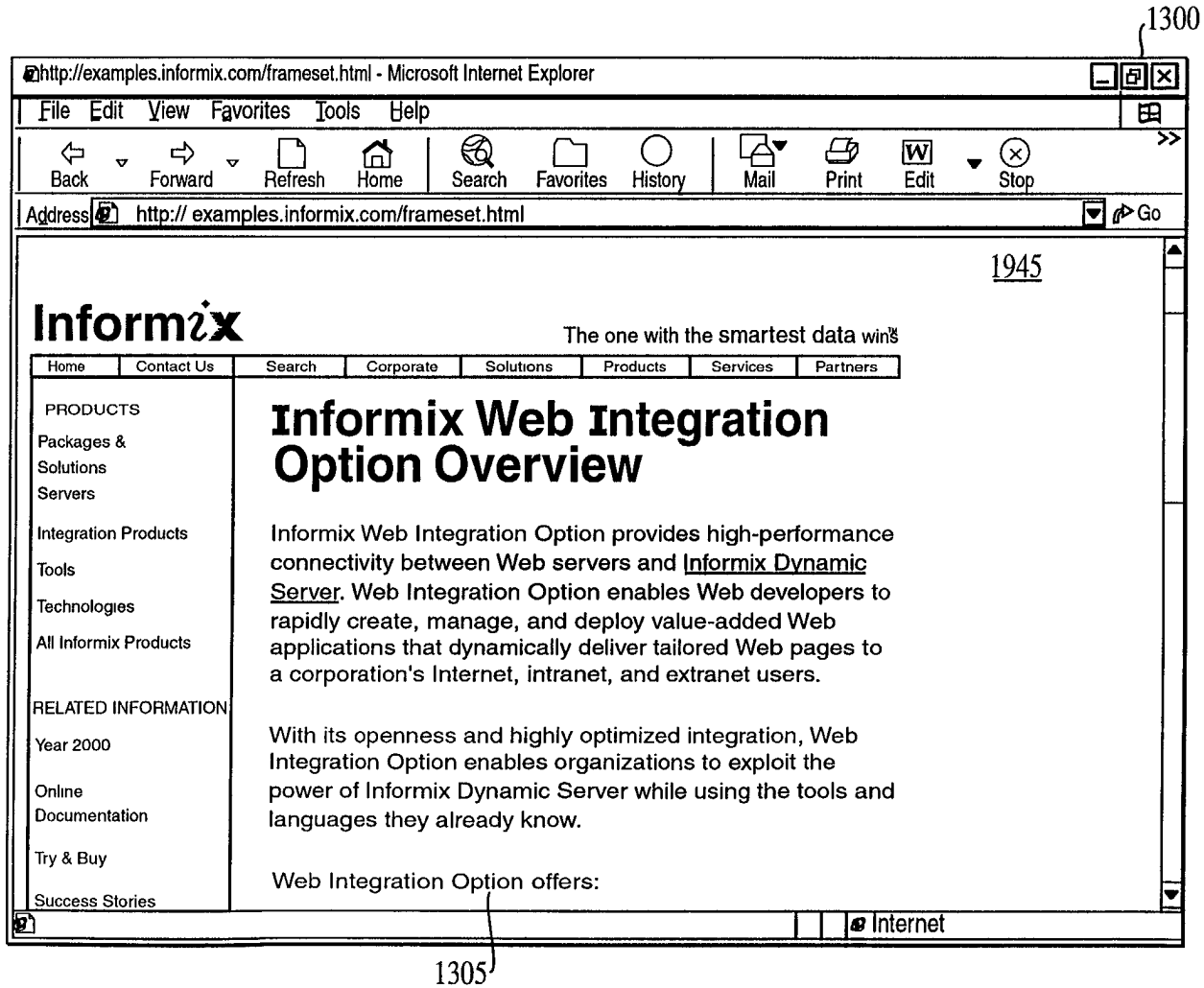
FIG. 19D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Tools
Technologies
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Success Stories
Informix Web Integration Option Overview
Informix Web Integration Option provides high-performance connectivity between Web servers and Informix Dynamic Server. Web Integration Option enables Web developers to rapidly create, manage, and deploy value-added Web applications that dynamically deliver tailored Web pages to a corporation's Internet, intranet, and extranet users.
With its openness and highly optimized integration, Web Integration Option enables organizations to exploit the power of Informix Dynamic Server while using the tools and languages they already know.
Web Integration Option offers:
Internet
1305

FIG. 19E

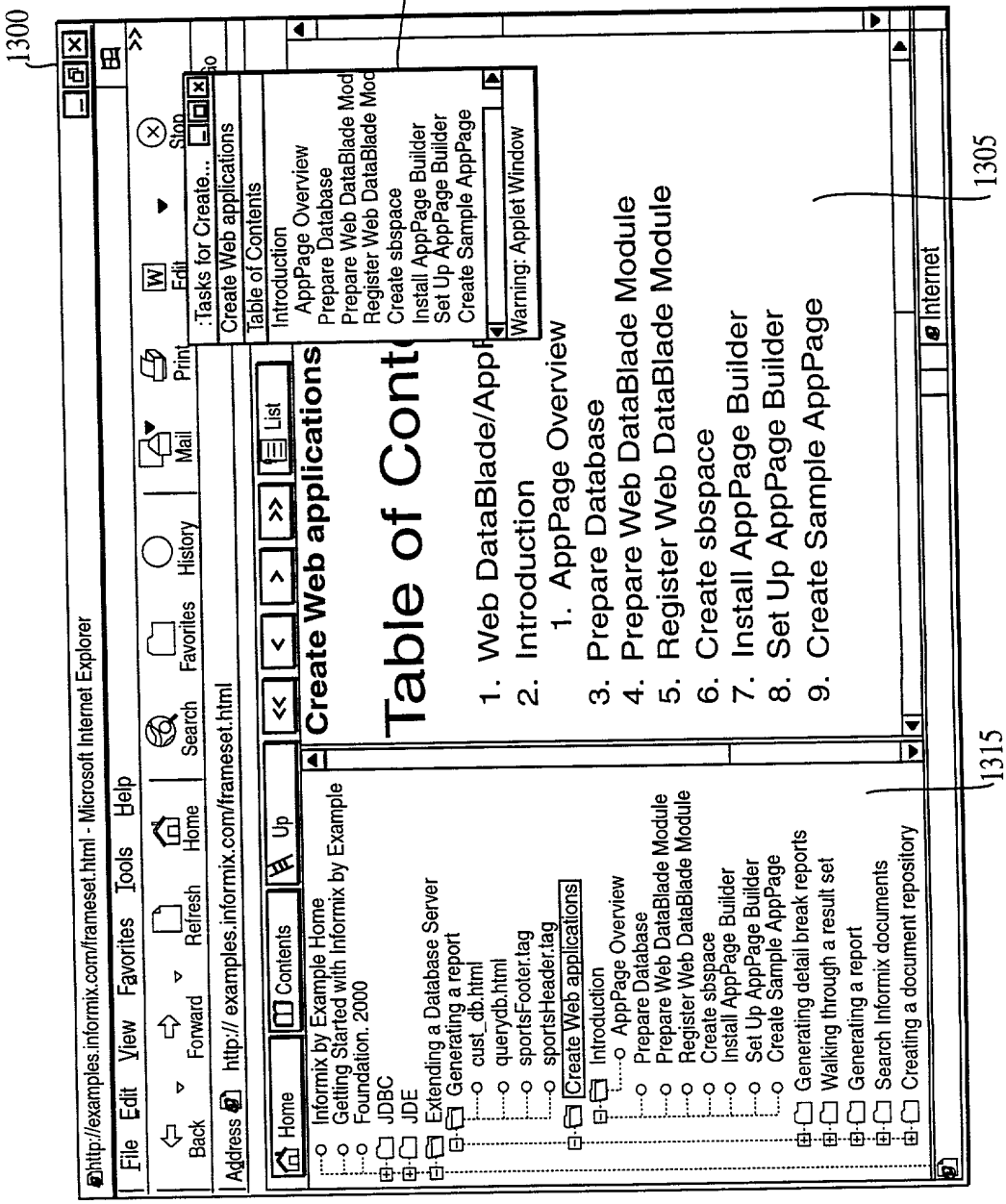
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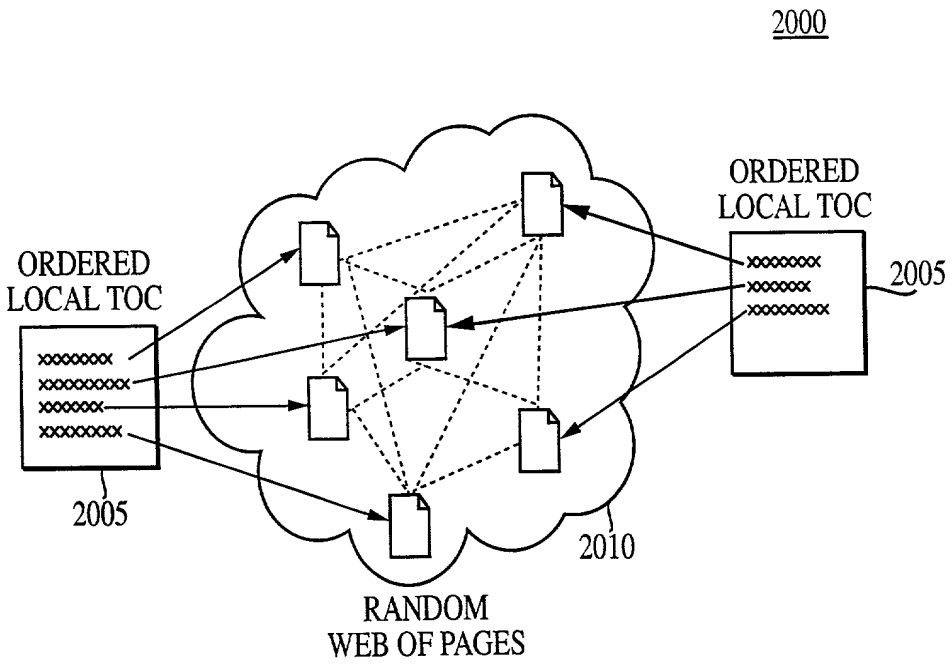
FIG. 19F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ORDERED
LOCAL TOC
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WEB OF PAGES

FIG. 20